MODEL

SERVICE MANUAL

TABLE OF CONTENTS

Sec	<u>Title</u>	<u>Page</u>	Sec	<u>tion</u> <u>Title</u> <u>P</u>	age
1.	GENERAL		5 .	DIAGRAMS	
	1-1. First of All	· з		5-1. Block Diagram ·····	19
	1-2. Connecting Other Equipment	· з		5-2. Circuit Boards Location	24
	1-3. Function of Controls	. 5		5-3. Schematic Diagrams	24
	1-4. Viewing Teletext	. 7		5-4. Printed Wiring Boards	30
				5-5. Semiconductors	
2.	DISASSEMBLY				
	2-1. Rear Cover Removal ·····	. 8	6.	EXPLODED VIEWS	
	2-2. Chassis Assy Removal ·····	. 8		6-1. Rear Cover	47
	2-3. J ₁ , A and V Boards Removal ······	. 8		6-2. Picture Tube ·····	48
	2-4. KS and B Boards Removal	. 9			
	2-5. Service Position ·····	. 9	7.	ELECTRICAL PARTS LIST	49
	2-6. Picture Tube Removal ·····	. 9			
3.	SET-UP ADJUSTMENTS				
	3-1. Beam Landing	· 10			
	3-2. Convergence ·····	· 11			
	3-3. Focus	· 13			
	3-4. White Balance ·····	· 14			
4.	CIRCUIT ADJUSTMENTS				
	4-1. B Board Adjustments	· 15			
	4-2. D Board Adjustments				
	4-3. A Board Adjustments				
	4-4. J ₁ Board Adjustments ······				
	4-5. V Board Adjustments				
	4-6. Sub Adjustments				
		• •		·	

SAFETY RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

1-1. FIRST OF ALL

Connect the aerial to the Tr socket on the rear of the set.

This socket receives the standard 75-ohm aerial plug.

Plug in the set.

Tune in the available channels.

Use the buttons inside the panel. To open the panel, push the center.

To tune in all channels automatically:

Press → (preset).

Press PROGR to select the program position from which tuning is to start.

Press (auto programing).

The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 2.

When tuning has been completed, the set returns to the position where tuning began.

To tune in a channel in any desired program position. (e. g. the position which the same number as the channel):

Press \Rightarrow (preset).
Press PROGR to select the desired program position. Press -

Press C (clear).

Press (search) repeatedly until the desired channel appears.

Repeat steps 2 to 4 for all channels, if required. Press \Longrightarrow (preset) again. 5

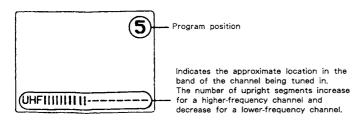
If the set is to be used in an area with poor reception, preset the program numbers between 1 and 19 for TV program use.

To have the unused program positions skipped when PROGR+ or PROGR− is pressed 1 Press ⇒ (preset).

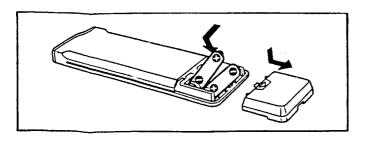
Press PROGR to select the unused position.

Press C (clear).
Repeat steps 2 and 3 for all unused position.
Press (preset) again.

On-screen display while tuning

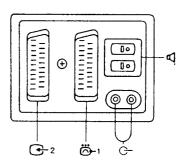


Insert two R6 batteries checking the correct polarity.



1-2. CONNECTING OTHER EQUIPMENT

Connectors on rear set



L/G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be	
R/D/D	Right external speaker terminal (2-pin DIN)	disconnected. speakers $8-16\Omega$	
R/D/D	Right audio output jack (phono jack)	Connect to audio equipment. When only using the phono- jacks, two loudspeaker plugs, (DIN 41529) should be insarted into the external speaker terminals so that the TV spaker output is switched off.	
L/G/S	Left audio output jack (phono jack)		
ĕ -1	21-pin connector (CENELEC standard)	Connect to a VTR micro computer, etc. The picture of the TV channel being received is always output. The picture of G-2 can be watched while recording a TV program with the VTR connected to G-1.	
G-2	21-pin connector (without RGB input)	Connect to second VTR. The picture displayed on the screen is always output. The picture of 冷 1 can be recorded with the VTR connected to 全 2 while monitaring the picture.	

VTR operation using the supplied Commander

Remote operation of the VTR is limited to the features and functions of the VTR. For further details, refer to the VTR manual.

When watching a video with the VTR connected to the IF connector, set the channel for the video to the program number 0 or any empty channel between 20 and 29.

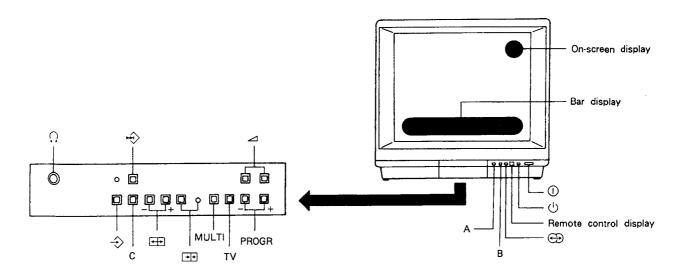
Move the VTR away from the TV, if the picture or sound is distorted.

21 pin connector (1, 2)

Pin №	<u>6</u> -1	G-2	Signal Signal level		
1	0	0	Audio output Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*		
2	0	0	Audio input B (right) Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*		
3	0	0	Audio output A (left) Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*		
4	0	0	Ground (audio)		
5	0	0	Ground (blue)		
6	0	0	Audio input A (left) Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*		
7	0	•	Blue input	$0.7 \text{ V} \pm 2 \text{ dB}$, 75 ohms, positive	
8	0	0	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10 k ohms Input capacitance: Less than 2 nF	
9	0	0	Ground (green)		
10	0	0	Open		
11	0	•	Green/Green with sync input	Green signal: 0.7 V ±2 dB, 75 ohms, positive Green with sync signal: 1 V ±2 dB, 75 ohms, positive	
12	0	0	Open		
13	0	0	Ground (red)		
14	0	0	Ground (blanking)		
15	0	•	Red input	(Same as Pin 7)	
16	0	•	Blanking High state (1-3 V) Low state (0-0.4 V) (Ys signal) Input impedance: 75 ohmes		
17	0	0	Ground (video output)		
18	0	0	Ground (video input)		
19	0	0	Video output	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (-3, ±10 dB)	
20	0	0	Video input 1 V ± 2 dB, 75 ohms, positive Sync: 0.3 V (-3, ± 10 dB)		
21	0	0	Common ground (plug, shield)		

^{*} at 20 Hz-20 kHz O connected • unconnected (open)

1-3. FUNCTION OF CONTROLS



On the set

On-screen display

Indicates program numbers and (+) input modes.

Indicates the level of ⊿volume, @color, ☆ brightness, ①contrast, ⑦ bass, & treble and △ balance.

Note on ⊾⊿ function.

When the volume is at the minimum setting the balance ► function will not operate.

① Power switch

To cut off the mains power completely, press this switch. Depress the power switch fully to ensure correct operation of the set.

Note

To ensure correct operation, push the switch in fully.

(standby indicator

Lights up brightly when the set is in the standby mode.

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

space sound indicator

Lights up when \bigcirc on the Remote Commander is pressed.

One of them lights during bilingual broadcast. (Choose A or B with the Remote Commander.)

Both light during stereo broadcast. In AV mode, A lights for left channel, B for right channel, or A and B for both channels.

Remote control detector

Point the Remote Commander towards this detector.

Inside the panel

neadphones jack (stereo minijack)

⊞ SEARCH buttons

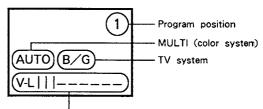
Press to fine tune a weak channel manually, if required. When is pressed, the indicator (AFT) goes off and the AFT cricuit does not function on the selected channel. To restore the AFT circuit on this channel, press 🖭 (AFT) so that the indicator lights up.

→ AFT button and indicator

Normally, press es so that the indicator lights up. The AFT circuit automatically fine tunes the channel for the best possible picture.

PROGR+, PROGR- program scan buttons

On-screen display during presetting



Indicates the approximate location in the band

of the channel being tuned in.
"V-L": low VHF band, "V-H": high VHF band, "UHF" : UHF band.

The number of upright segments increases for a higher-frequency channel.

Each time TV button is pressed, the following indications appear in this order.

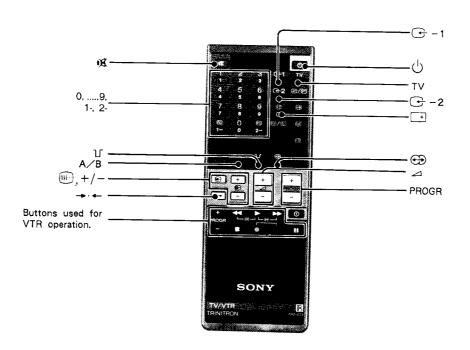
B/G: West European TV standard

I : British TV standard M : American TV standard

D/K: East European TV standard L: French TV standard

Each time MULTI button (COLOR SYSTEM) is pressed, the following indications appear in this order. AUTO; NTSC3.58;

Normally set to the AUTO position. The arailable color system is selected automatically.



RM-673

On the Remote Commander

To operate the Commander, point it toward the remote control detector.

M mute button

0,, 9, 1-, 2- buttons To tune into: program 15, press 1- and 5. program 25, press 2- and 5.

A/B button

Press to select the language in a bilingual broadcast, or to select the channel in AV mode.

Press (III).

will appear on the screen. Adjust by pressing + or -. Press magain and adjust @ (color), then # (brightness),): (bass), § (treble) and 🖂 (balance).

→·← reset button

Press to reset color, contrast and brightness to factory-set levels.

(b) standby button

Press to change to the standby mode. Use this button to turn off the set for short periods of time.
To turn on the set, press TV or the program number; there will be a slight delay before the picture is restored.

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

Press to change to the TV mode from standby, input or teletext modes.

1 input button

Press to view the input picture coming in through the 6-1 connector.

" 1" lights up on the screen.

Press TV or the program number to return to the TV mode.

2 input button

Press to view the input picture coming in through the 2 connector.

Carried 2 lights up on the screen.

Press TV or the program number to return to the TV mode.

on-screen display button

Press to make the display appear on the screen. Press again to make it disappear.

✓ loudness button

Press to emphasize high and low notes.

space sound button

Press to obtain special acoustic effects.

∠ volume buttons

PROGR program scan buttons

Buttons not referred to on this page or next page do not

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

- Select the TV channel for the desired teletext service.
- Press (TEXT / MIX) to display the teletext service. Once <a> Image: Once Image: On

cannot be changed.

Key in the three digits for the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing \$\exists \mathcal{Z}\$.

To receive the teletext service of a different TV channel

- Press TV to return to the TV mode. Select the desired TV channel.
- Press 🖹 / 🕏. 3

Note

To receive the teletext service accurately, keep 🖭 inside the panel switched on during teletext operation.

To display the index page Press (INDEX).

If the necessary signal is not being broadcast, page 100 is

To access the next or preceding page Press (PAGE+) or (PAGE-).

To superimpose the teletext display on the TV picture Press 🖹 / 🕏 twice from TV mode. Press again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed

Press (TEXT CL).

This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated /changed

Press (HOLD). The HOLD symbol appears at the top of the screen.



To resume normal teletext reception, press 🖹 / 🕏.

To enlarge the teletext display

Press 📆

Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.

To reveal concealed infomation such as the answers to a auiz

Press (REVEAL).

Press again to conceal the answers.

To adjust the contrast of the teletext display. When in teletext mode, adjust by using the + or - keys adjacent to the III key.

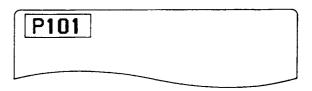
To watch the TV program while waiting for a requested page to be displayed

Request the new page.

Press (x) to watch the TV program.

The requested page number appears at the top left of the screen.

When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.

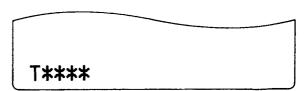


To view this page, press 🖹 / 🔊.

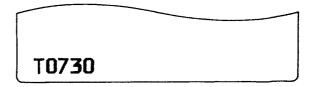
To have a requested page displayed at a pre-determined

- Request a time coded page (e. g. alarm page).
- Press (TP ON).

will appear at the bottom of the screen.



Enter your request time with the number buttons, using four digits. For example, 07:30.



To watch the TV program until the requested time, press (EX). At the requested time, the page number will be displayed at the bottom of the screen.

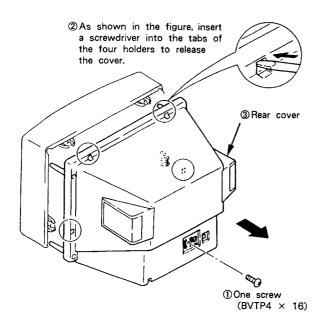
To view this page, press 🗐 / 🔊.

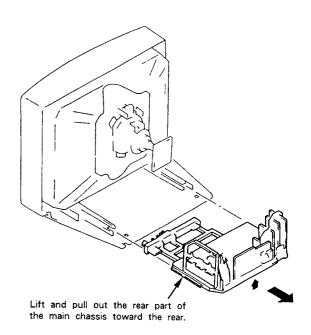
To cancel the request, first ensure that the teletect page is displayed, then press (TP OFF).

SECTION 2 DISASSEMBLY

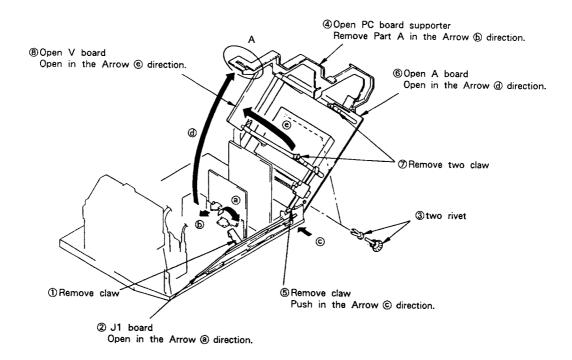
2-1. REAR COVER REMOVAL

2-2. CHASSIS ASSY REMOVAL

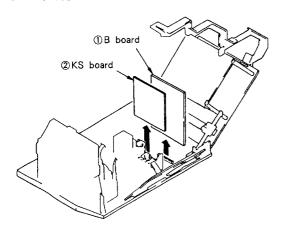




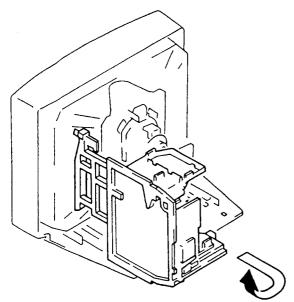
2-3. J₁, A AND V BOARDS REMOVAL



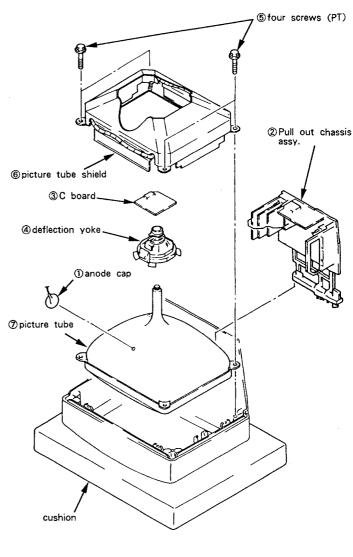
2-4. KS AND B BOARDS REMOVAL



2-5. SERVICE POSITION



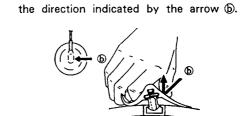
2-6. PICTURE TUBE REMOVAL



Removing Procedures

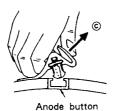


① Turn up one side of the rubber cap in the direction indicated by the arrow @.



(3) When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

2 Using a thumb, pull up the rubber cap frmly in



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

OCONTRAST control 80% (or Normal by Commander)

☼BRIGHTNESS control ···· 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color Bar Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in oder to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

- Input a raster signal with the pattern generator.
 CONTRAST normal
 BRIGHTNESS normal
- Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3-1 to 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-1)
- 5. Switch over the raster signal to blue and green and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3-4)

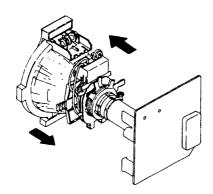
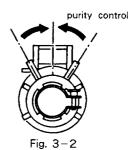
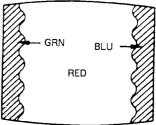
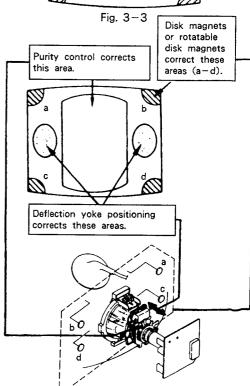


Fig. 3-1





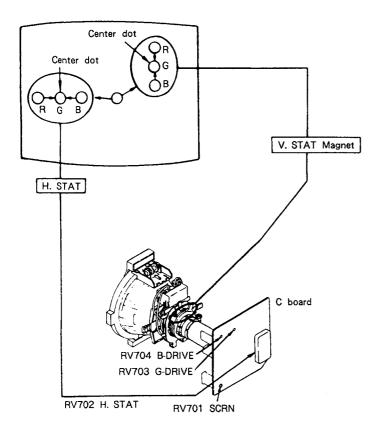


3-2. CONVERGENCE

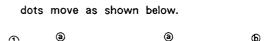
Preparation:

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- · Feed in the dot pattern.

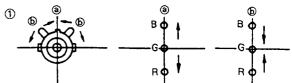
(1) Horizontal and Vertical Static Convergence

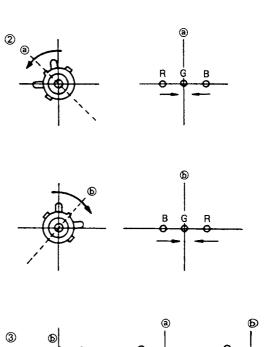


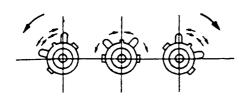
- 1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)
- If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



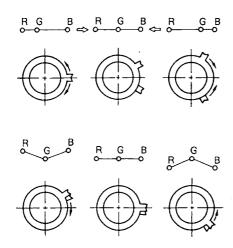
4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue





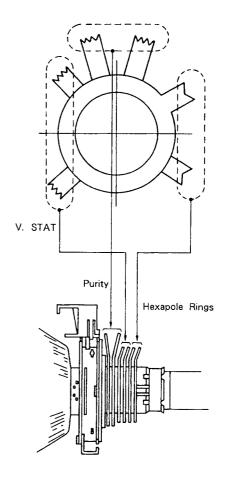


Operation of Hexapole Ringed Magnet



The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

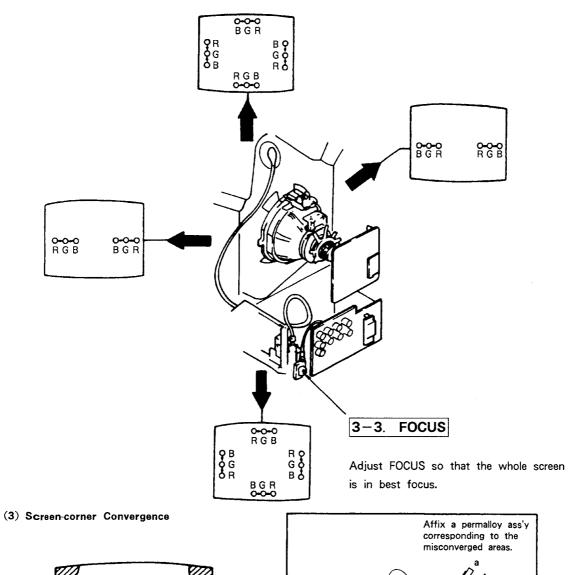


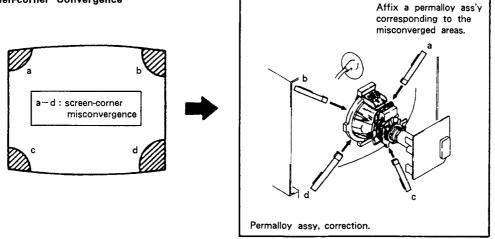
(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





3-4. WHITE BALANCE

(Screen (G2) Setting)

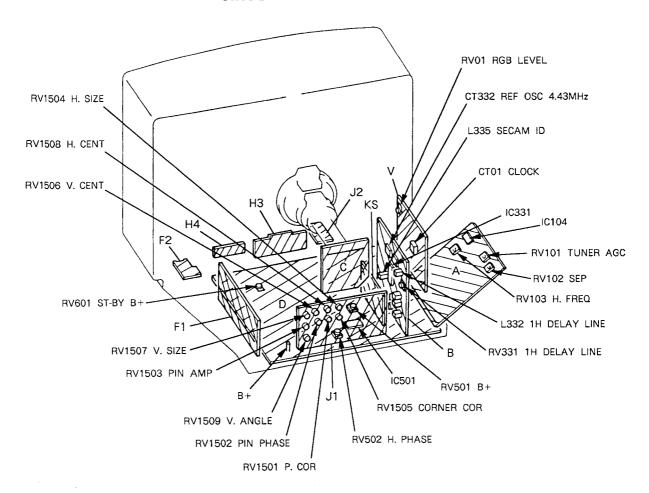
- 1. Input dot signals from the pattern generator.
- 2. Set the picture BRIGHTNESS control to the minimum level.
- 3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
- 4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

(White Balance Adjustment)

- 1. Input all-white signals from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4 CIRCUIT ADJUSTMENTS



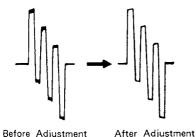
4-1. B BOARD ADJUSTMENTS

REF OSC Adjustment (CT332)

- 1. Input a PAL COLOR BAR pattern.
- 2. Short circuit between pin 10 of IC331 and ground.
- 3. Adjust CT332 to obtain color synchronization.
- 4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

- 1. Input a PAL COLOR BAR pattern.
- 2. Connect the oscilloscope to pin 3 (B-Y) of IC331 and observe the waveform of the H block on the oscilloscope.
- 3. Adjust L332 to minimize the double waveform outline.



- 4. Input a PAL TEST COLOR BAR pattern.
- 5. Rotate the RV331 VR and adjust till the ANTI-PAL part of the waveform matches the 0 level.

This part matches the O level. Before Adjustment After Adjustment

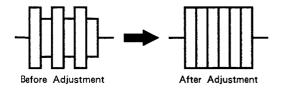
6. L332 and RV331 affect each other. So repeat till the conditions of both are met.

SECAM ID Adjustment (L335)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect a Digital Multimeter to pin @ of 0331.
- 3. Adjust L335 so that the indicator goes up to the maximum.

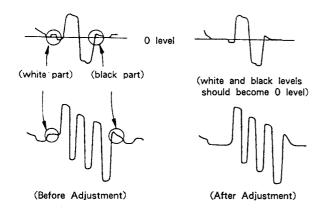
BELL FILTER Adjustment (T331)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to the Q335 emitter.
- 3. Adjust T331 so that the waveform becomes flat.



SECAM DISCRI Adjustment (L333, L334)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to pin (1) of IC331.
- 3. Adjust L333 so that white and black parts of the waveform of pin ① becames 0 level.
- 4. Connect an oscilloscope to pin 3 of IC331.
- 5. Adjust L334 so that white and black parts of the waveform of pin 3 becomes 0 level.



4-2. D BOARD ADJUSTMENTS

B+ Adjustment (RV501)

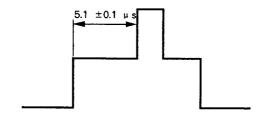
- 1. Connect a Digital Multimeter to TP91.
- 2. Adjust RV501 so that the voltage becomes 135 ± 0.2 V.

ST-BY B+ Adjustment (RV601)

- 1. Set up () standby (Remote Commander) mode.
- 2. Connect the Digital Multimeter to TP91.
- 3. Adjust RV601 so that the voltage becomes
- 4. Release the ()standby (Remote Commander) mode.

H. PHASE Adjustment (RV502)

- 1. Input a PAL TEST COLOR BAR pattern.
- 2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
- Set RV1508 (H. CENT) to the mechanical center position.
- Connect an oscilloscope to pin (I) (SPC OUT) of IC501.
- 5. Rotate RV502 and adjust Block T to 5.1 \pm 0.1 μ s.



4-3. A BOARD ADJUSTMENTS

TUNER AGC Adjustment (RV101)

- 1. Tune in an off-air signal.
- 2. Adjust RV101 so that snow-noise and cross-modulation just disappear from the picture.

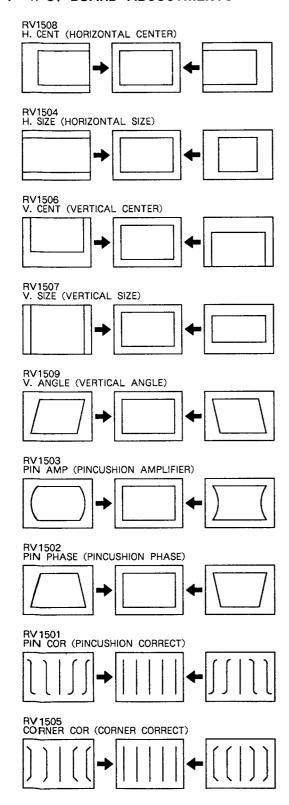
STEREO SEPARATION Adjustment (RV102)

- 1. Input stereo signals. (L-CH 1 kHz, R-CH 400 Hz)
- 2. Check the stereo indicator.
- Connect an oscilloscope to pin ① (L) of CNA11 through band pass filter of 1 kHz.
- Adjust RV102 so that 1 kHz voltage goes down to the minimum.

H. FREQ Adjustment (RV103)

- 1. Input a PAL COLOR BAR pattern.
- 2. Short circuit between pin 10 of IC104 and ground.
- 3. Connect a frequency counter to pin ® of IC104 through a probe of 10:1.
- 4. Adjust RV103 so that H. frequency becomes $15,625 \pm 50$ Hz.

4-4. J₁ BOARD ADJUSTMENTS



4-5. V BOARD ADJUSTMENTS

Clock Adjustment (CT01)

- 1. Disconnect the V-1 connector.
- 2. Set up the TELE TEXT mode.
- 3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

- 1. Set PICTURE to maximum.
- 2. Adjust RV01 till the RGB output becomes 0.75 V.

4-6. SUB ADJUSTMENTS

SUB BRIGHTNESS Adjustment

- 1. Receive and display a TEST COLOR BAR pattern.
- 2. Push →•← on the remote commander to invoke the normal state.
- 3. Turn off the power supply.
- 4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
- 5. Reduce the CONTRAST to the minimum level.
- Adjust the ABRIGHTNESS control until the O IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.
- 7. Push the AFT button. (SUB mode is cleared)

Where no TEST COLOR BAR pattern is available.

- 1. Display a COLOR BAR pattern.
- Push → ← on the remote commander to invoke the normal state.

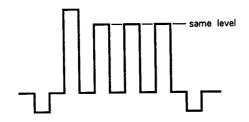
Set the @COLOR to normal mode.

Steps 3-5 are the same as above.

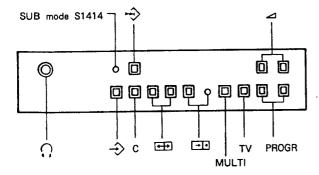
- 7. Same as Step 7 above.
- Push →•← on the remote commander to invoke the normal state.
- * When Step 4 is executed correctly, S (SUE mode) is displayed at the upper right of the display. As S is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.

SUB COLOR Adjustment

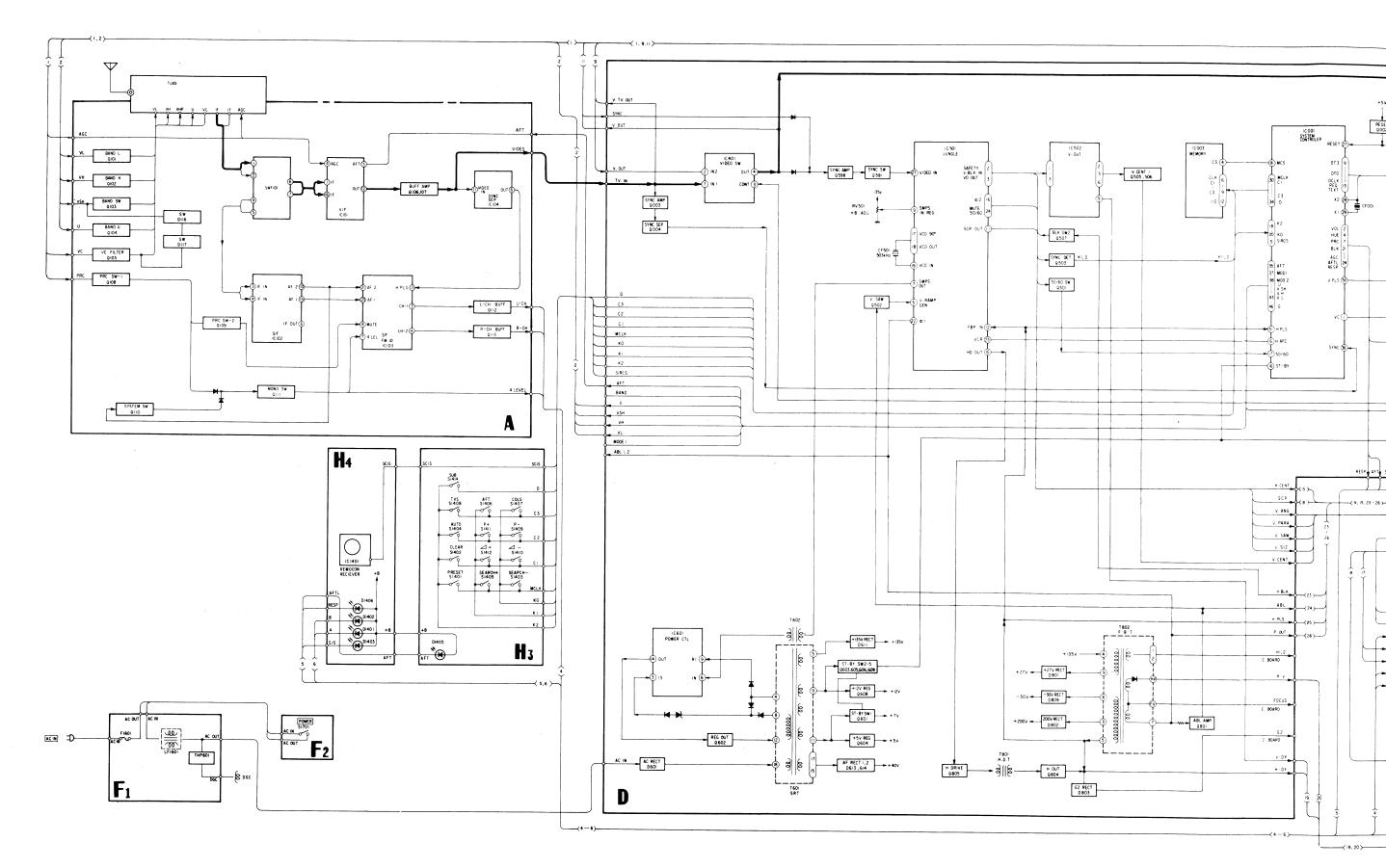
- 1. Display a COLOR BAR pattern.
- 2. Push →·← on the remote commander to invoke the normal state.
- 3. Turn off the power supply.
- 4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
- 5. Adjust the COLOR control until the B out (pin ② of CNC72 connector on C board) waveform becomes as shown below.
- 6. Push the AFT button. (SUB mode is cleared.)

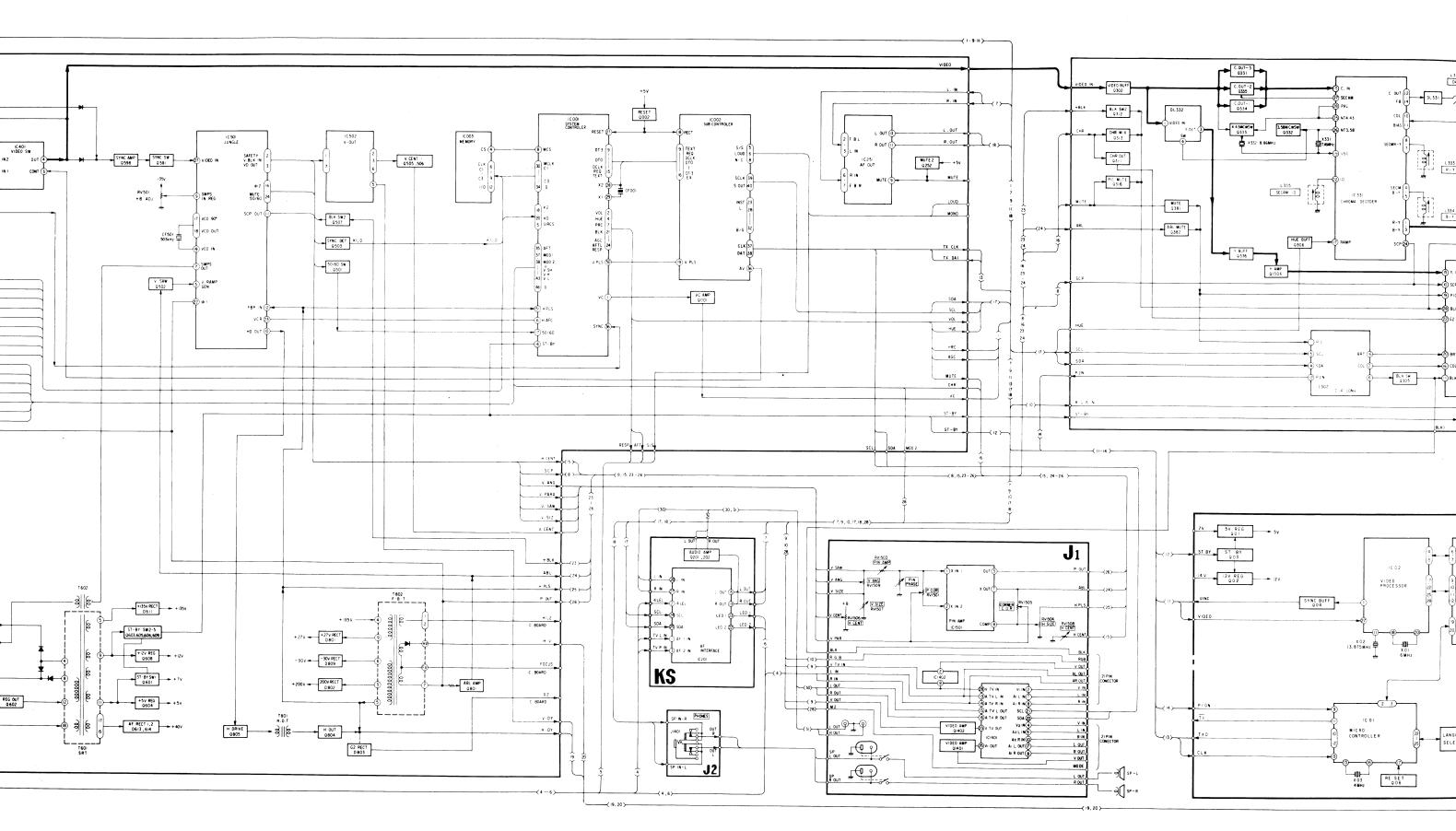


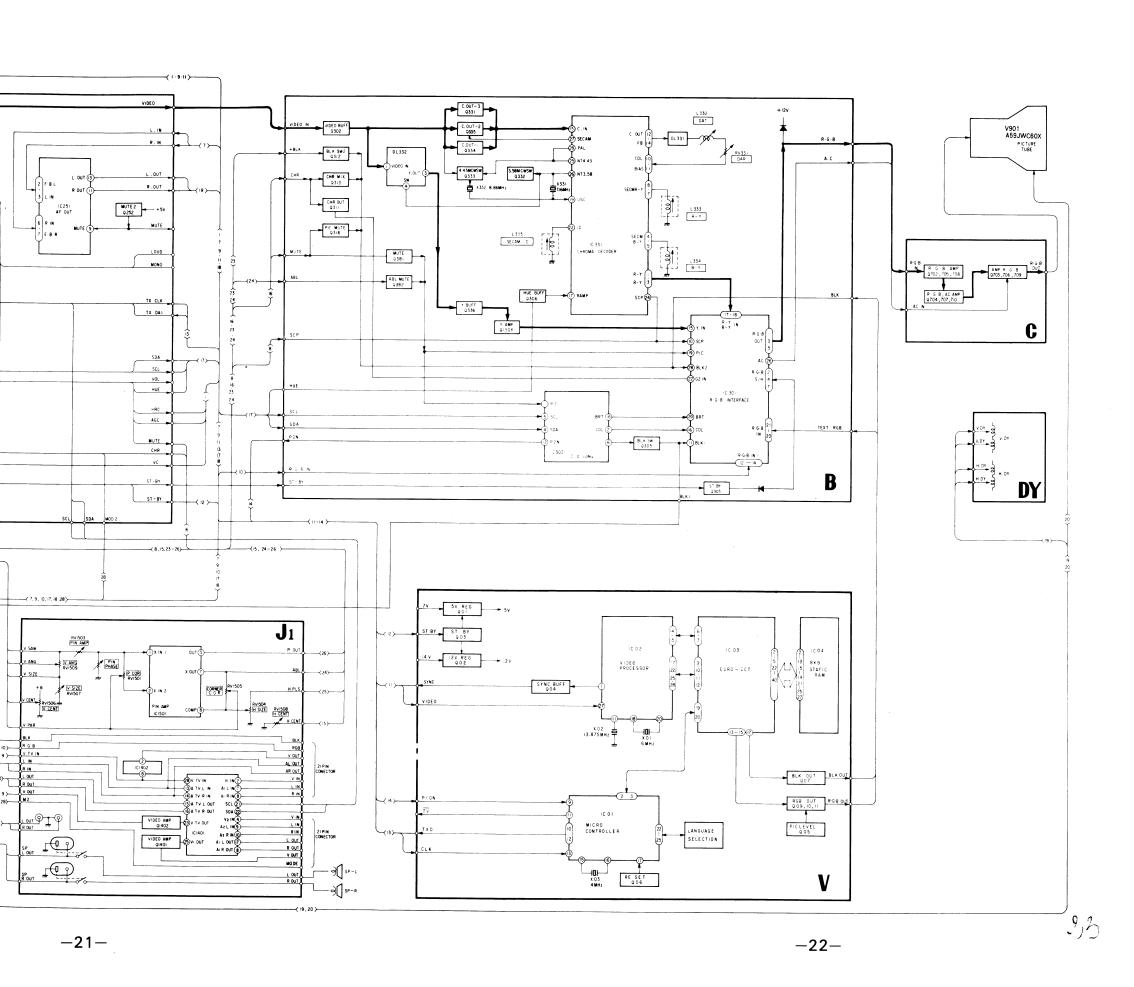
* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment with 30 seconds, or repeat from Step 4.



5-1. BLOCK DIAGRAM

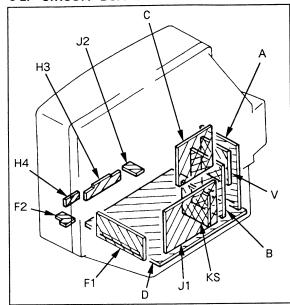






-23-

5-2. CIRCUIT BOARDS LOCATION



- ullet All capacitors are in μF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- fusible resistor. : internal component. Δ
- panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus. • ===: B- bus.
- : signal path.

Reference information

METAL FILM RESISTOR : RN

: RC SOLID

: FPRD NONFLAMMABLE CARBON

NONFLAMMABLE FUSIBLE : FUSE

: RW NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE

: RS NONFLAMMABLE CEMENT : RB

MICRO INDUCTOR COIL : LF-8L

CAPACITOR : TA

TANTALUM

STYROL : PS

POLYPROPYLENE : PP

: PT MYLAR

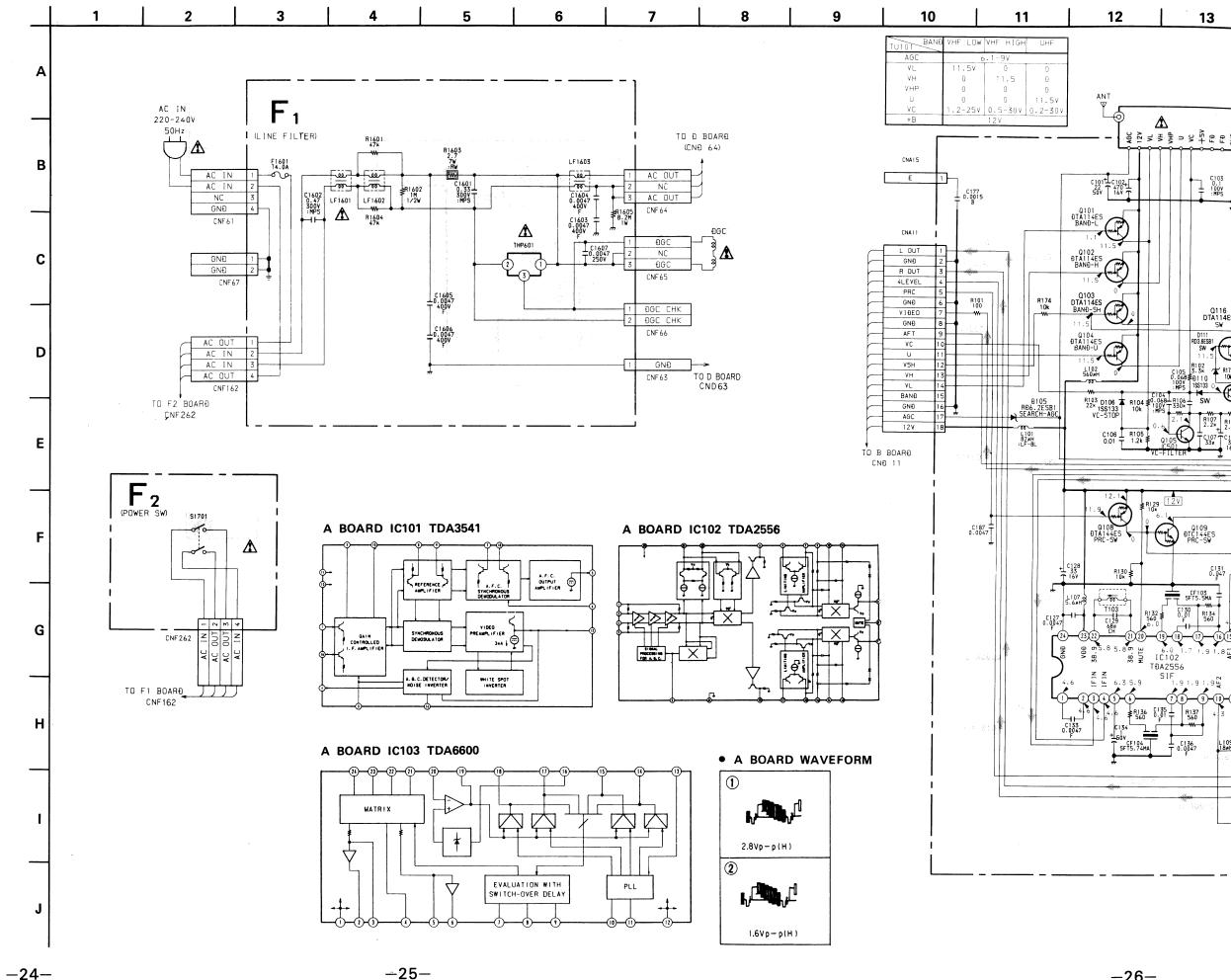
METALIZED POLYESTER : MPS

: MPP METALIZED POLYPROPYLENE BIPOLAR : ALB

HIGH TEMPERATURE : ALT

: ALR HIGH RIPPLE

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

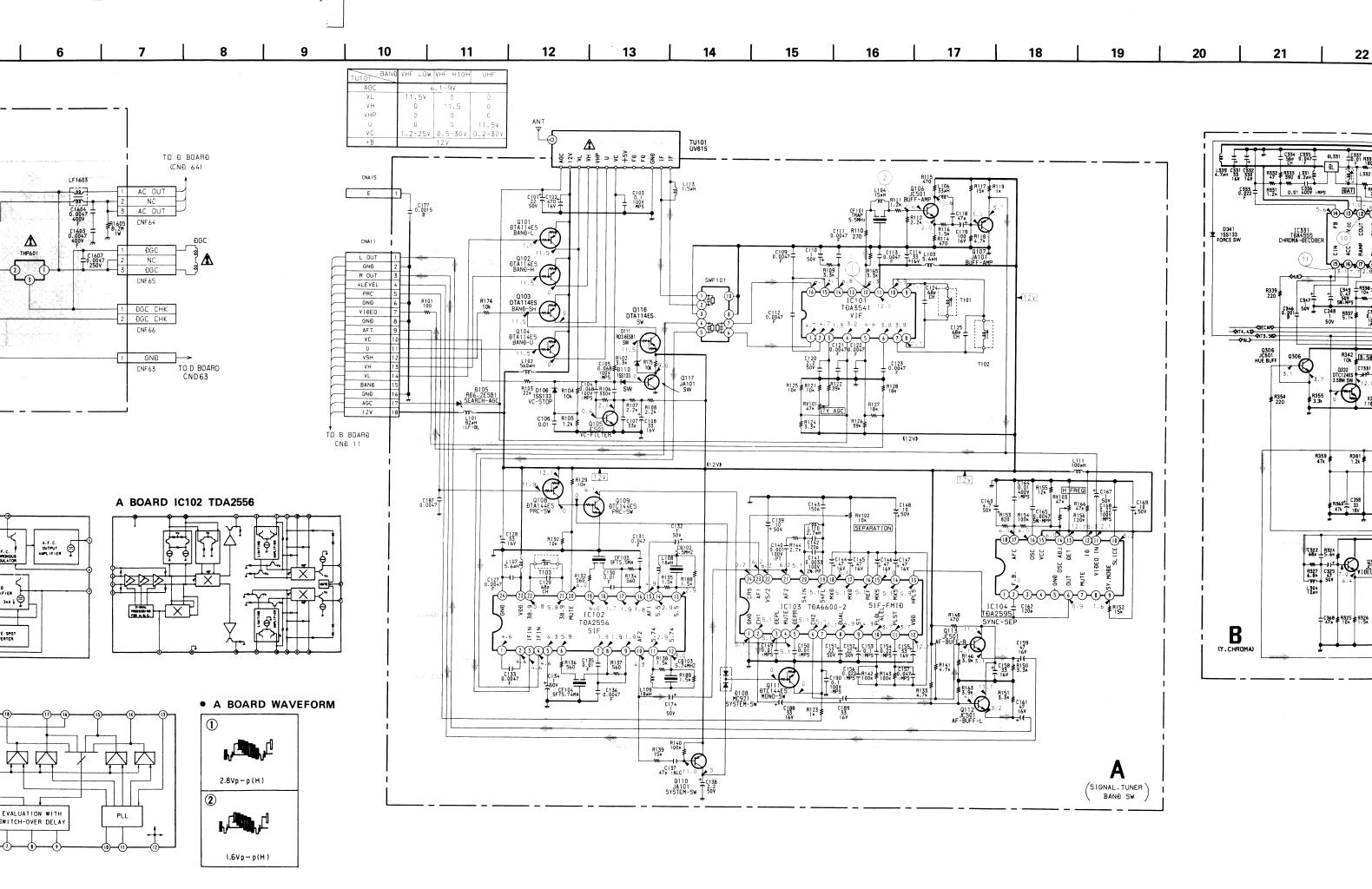


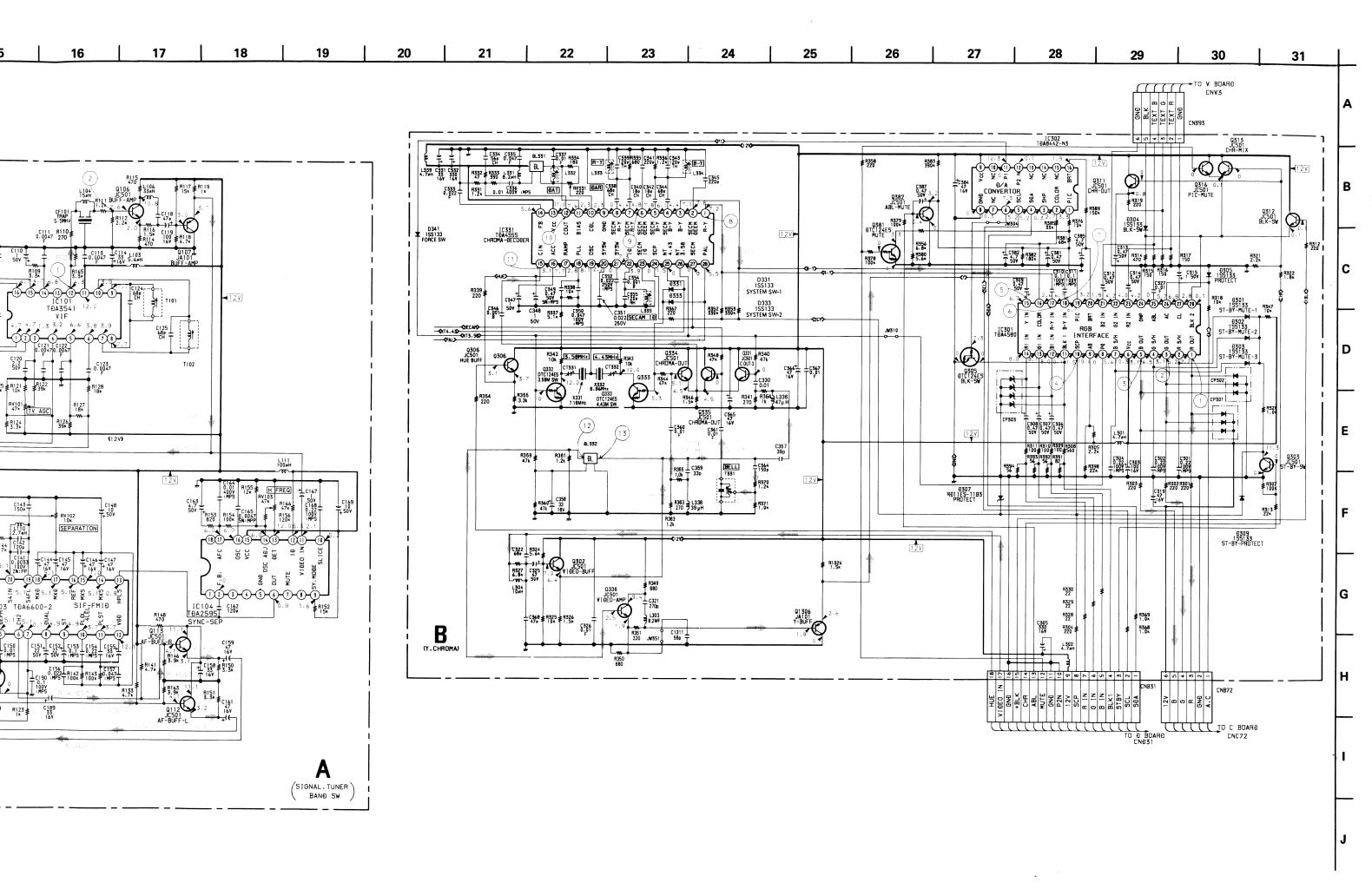
5-3. SCHEMATIC DIAGRAMS

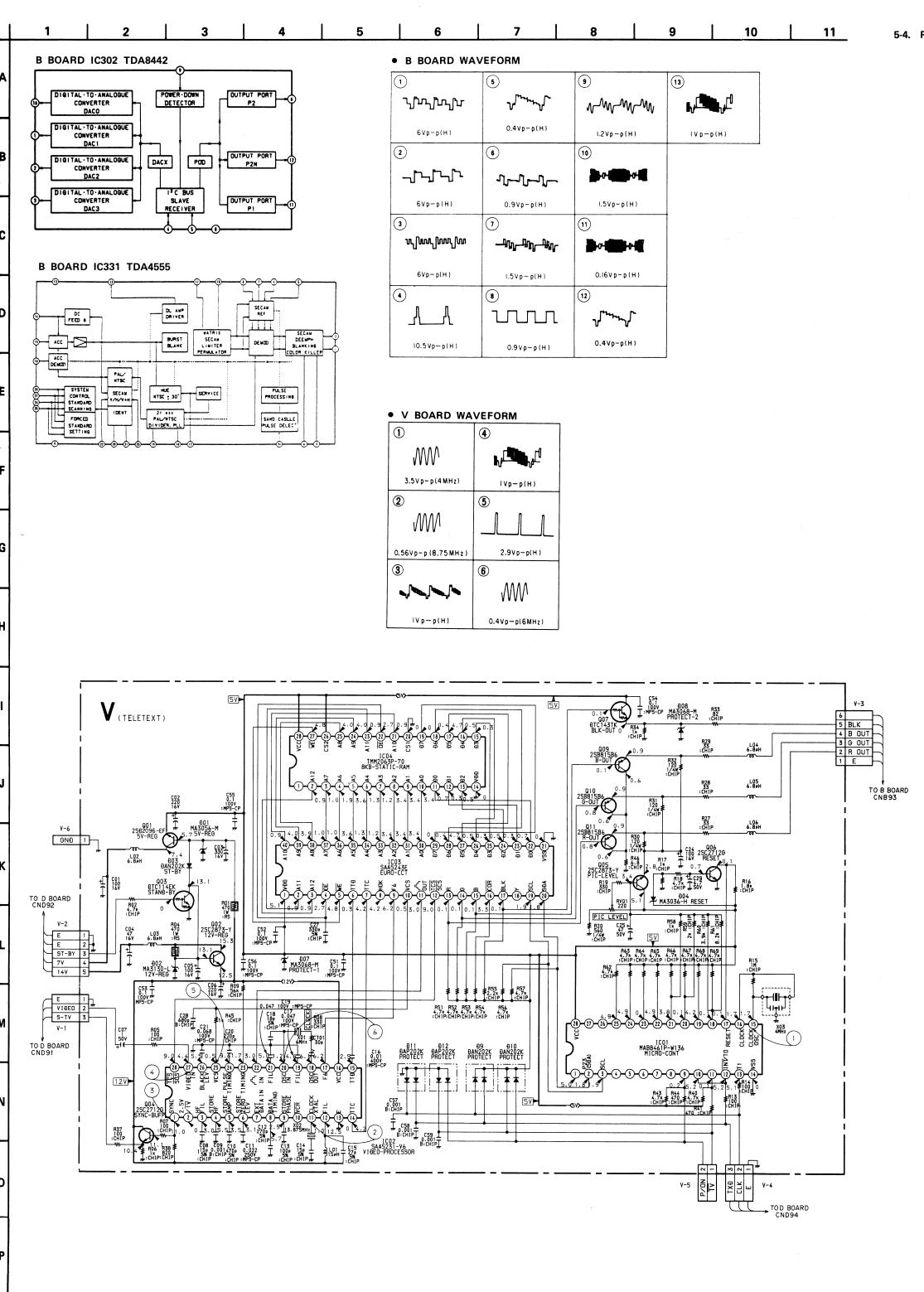
В

D

G

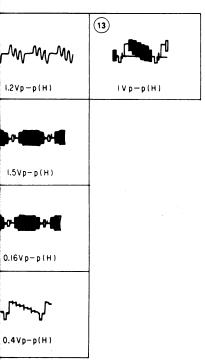


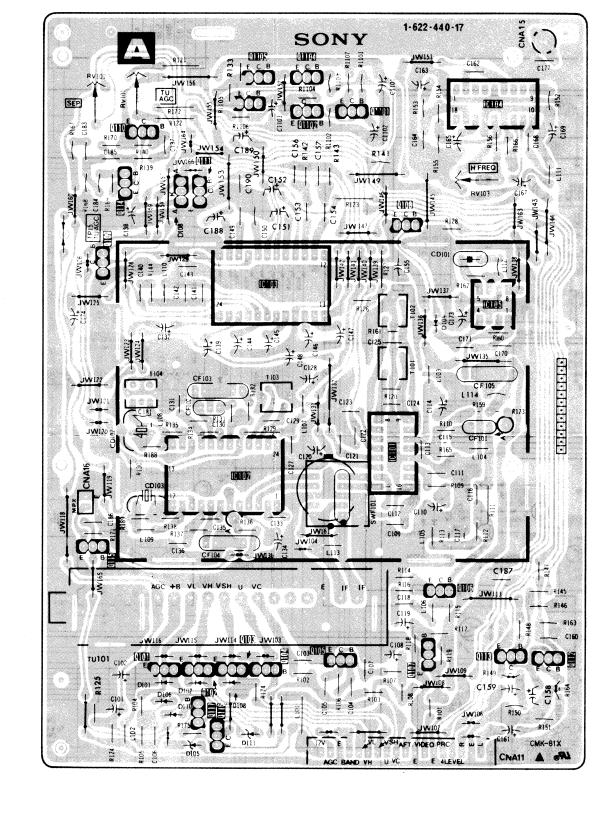


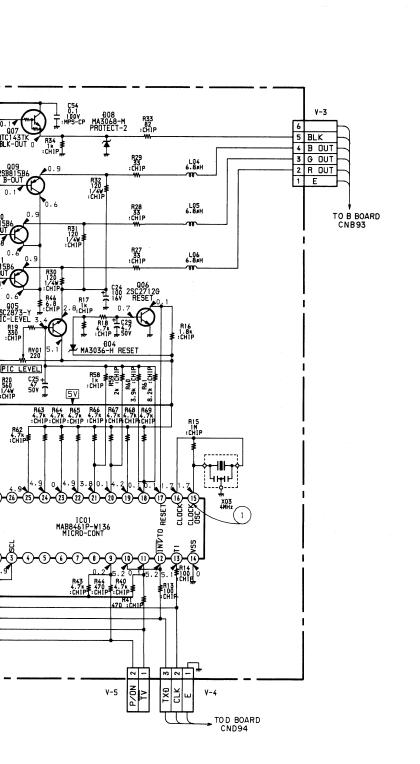


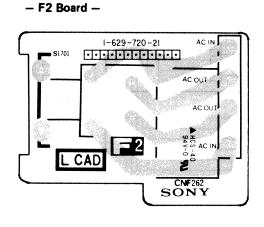


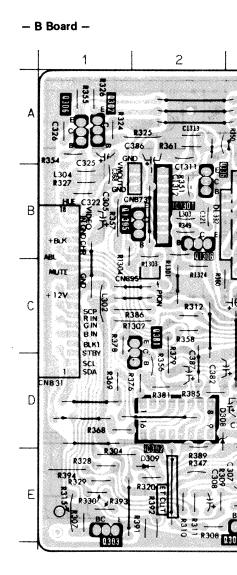
- A Board -

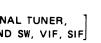












SONY



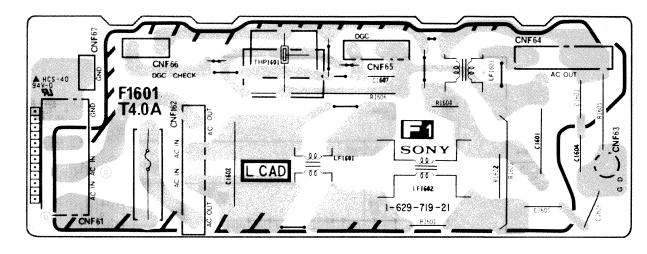
1-622-440-17



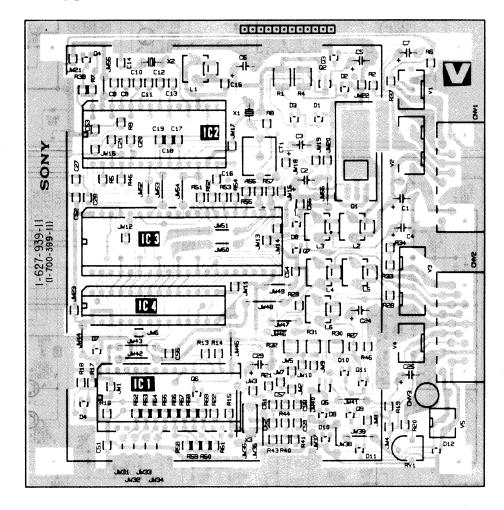


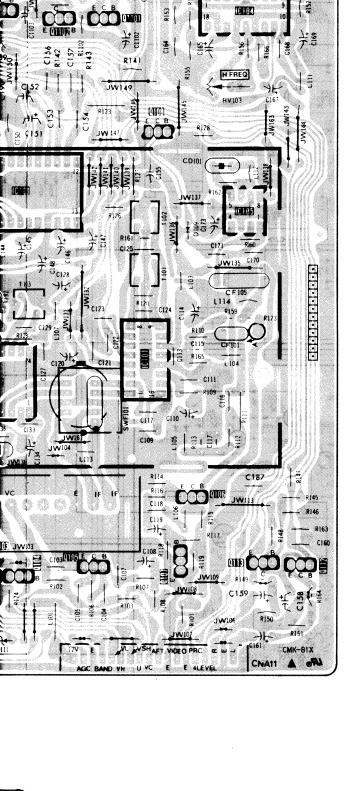
- F1 Board -

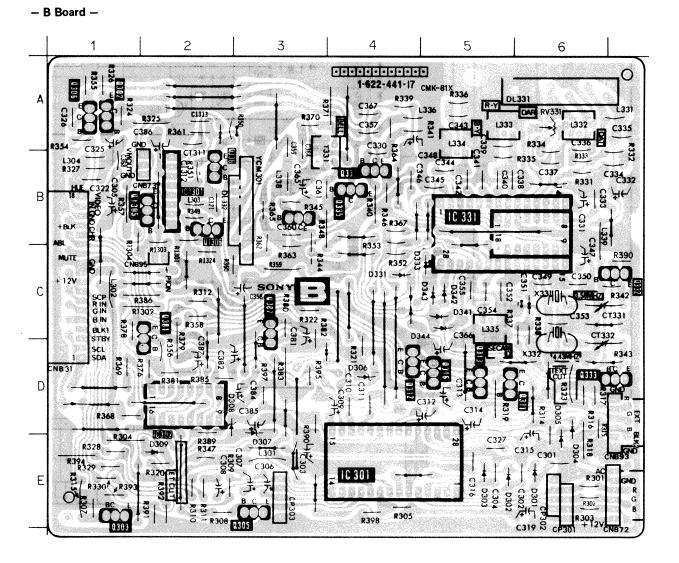
F2



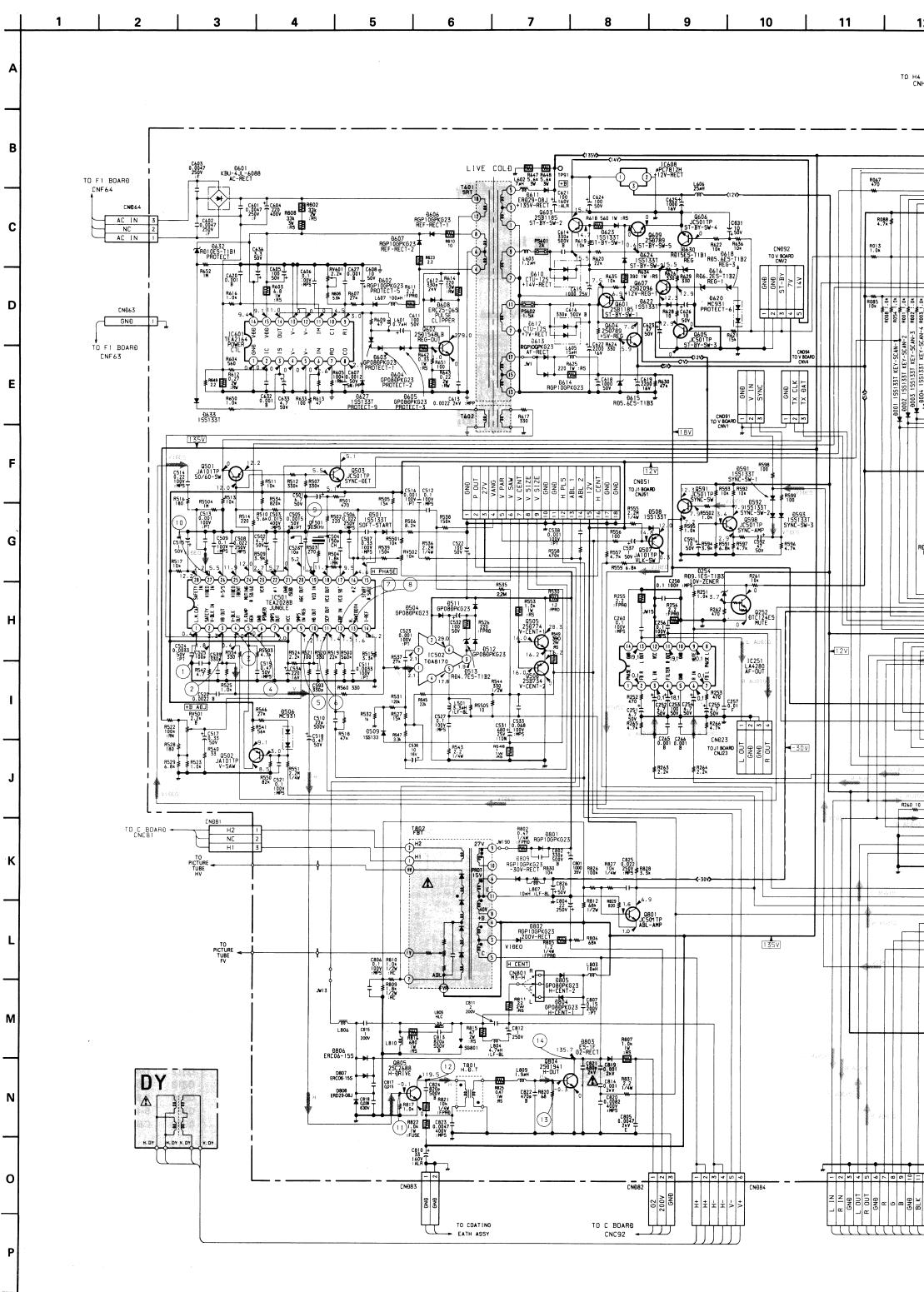
- V Board -

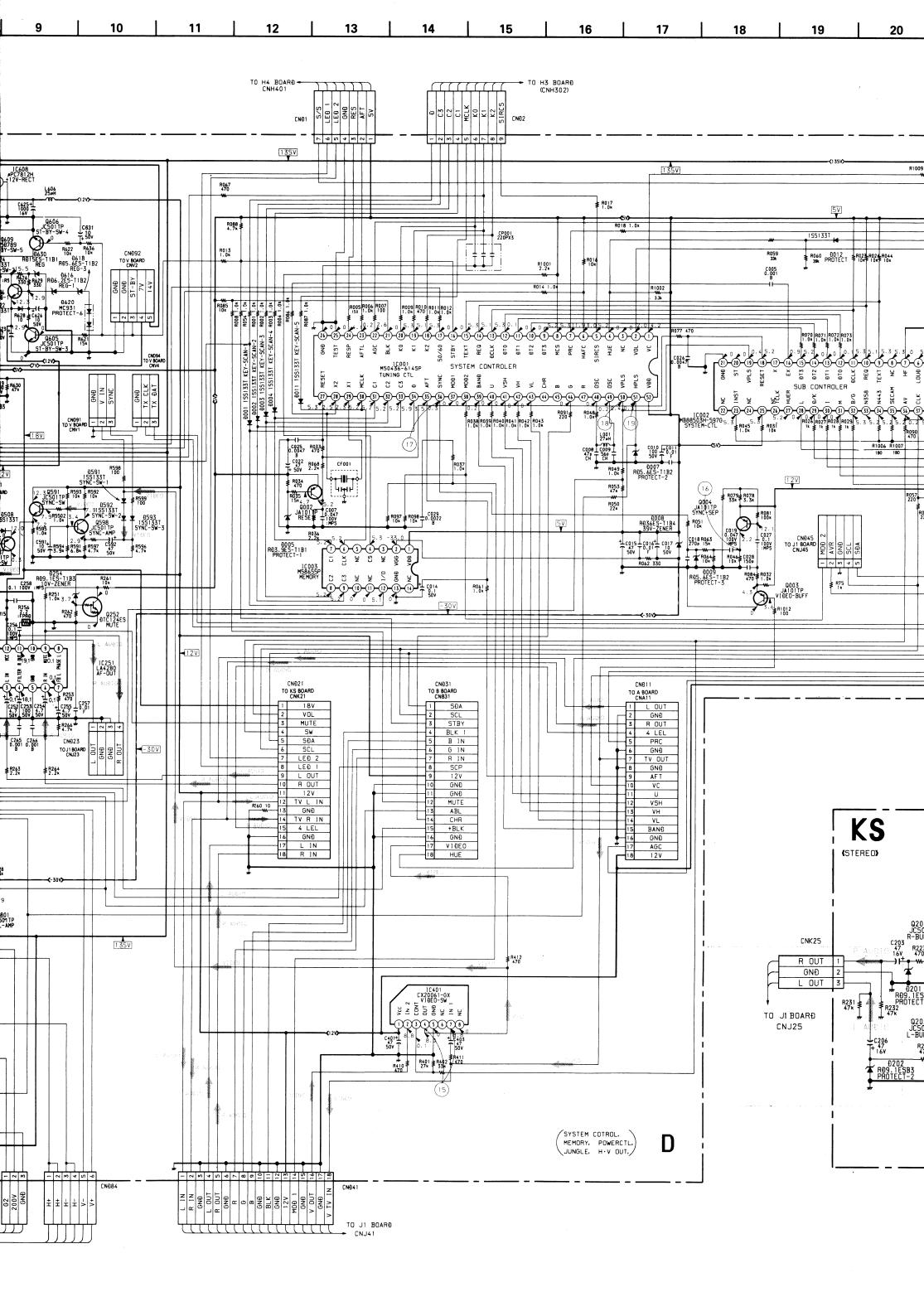


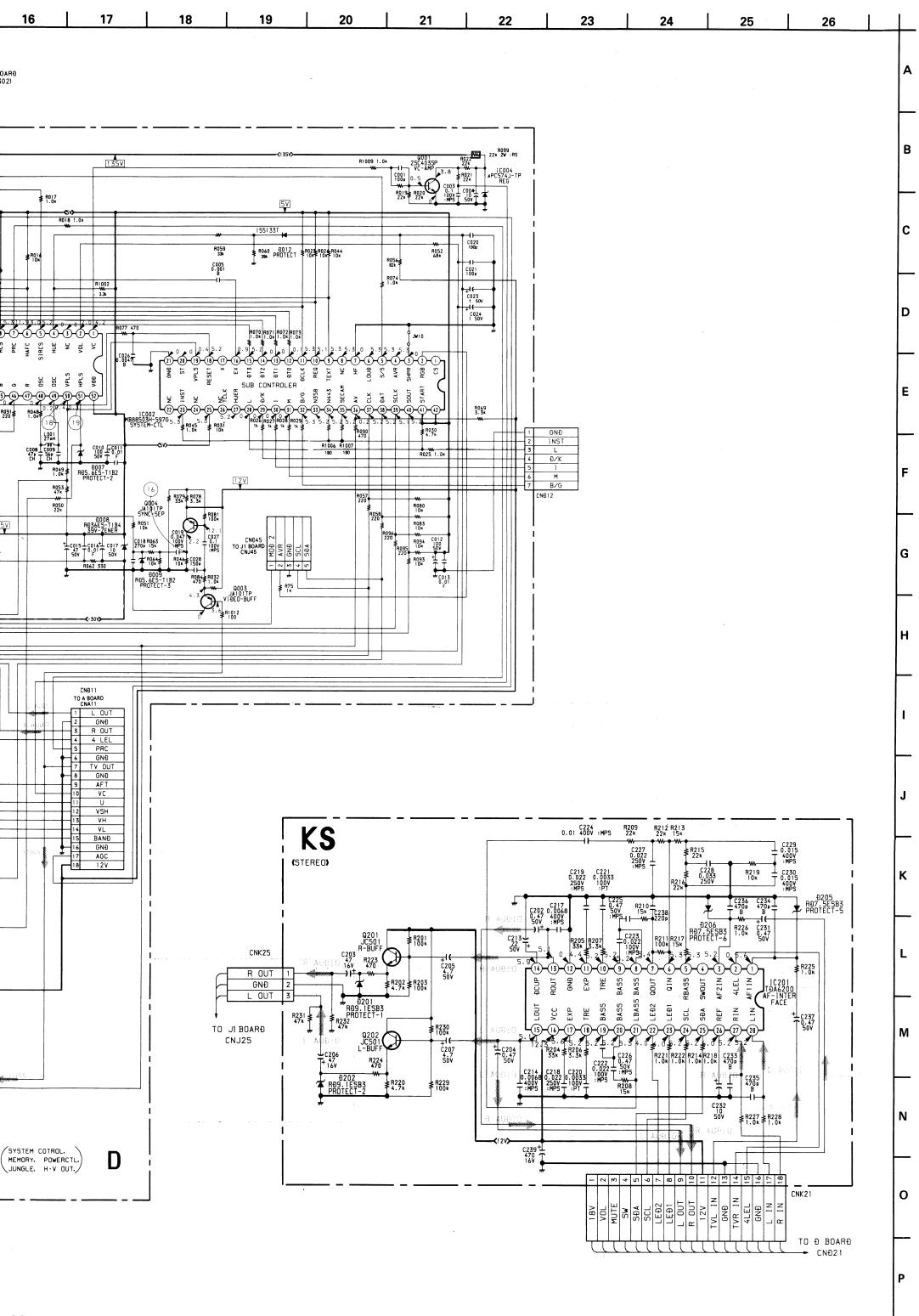




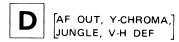
Į(С	DIODE		
IC301	E-4	D301	E-6	
IC302	D-2	D302	E-5	
IC331	B-5	D303	E-5	
		D304	E-6	
TRANS	SISTOR	D305	E-6	
Q302	A-1	D307	E-3	
Q303	E-1	D309	E-2	
Q305	E-3	D331	C-4	
Q306	A-1	D333	C-5	
Q311	D-5	D341	C-5	
Q312	D-4	VARI	ABLE	
Q313	D-5	RESISTOR		
Q316	D-5			
Q331	B-4	RV331	A-6	
Q332	C-6	CT331	0.0	
0222	D.C	CT331	C-6	
Q333 Q334	D-6 B-3	U1332	D-6	
Q335	в-3 В-4			
Q336	B-4 B-2			
Q381	C-2			
4301	U-Z			
Q382	C-3			
Q1316	B-2			



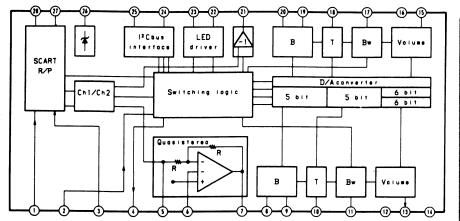


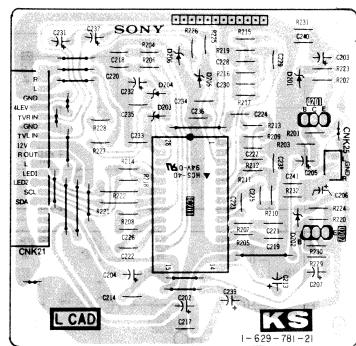




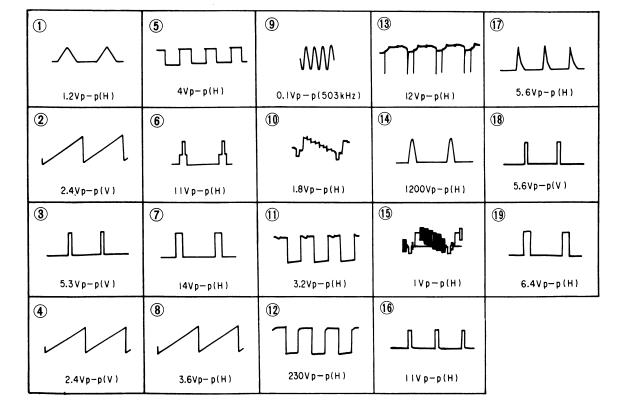


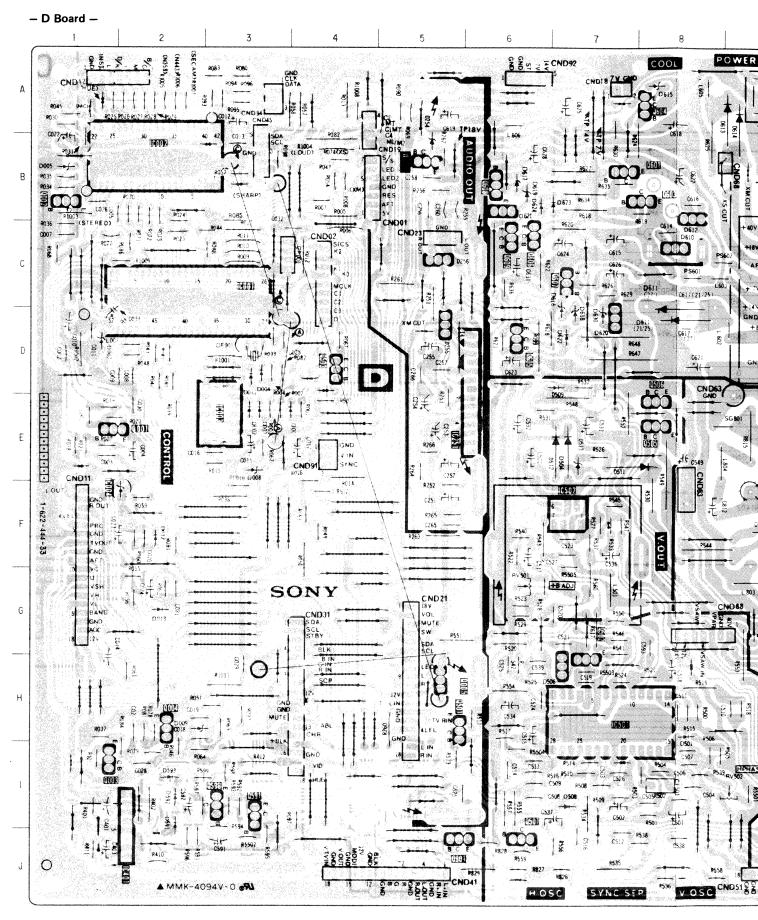


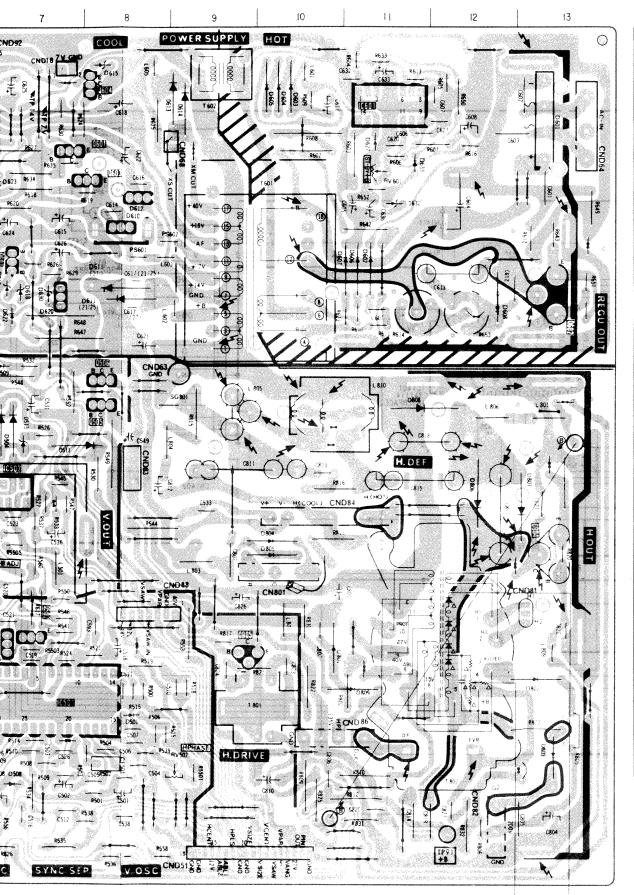




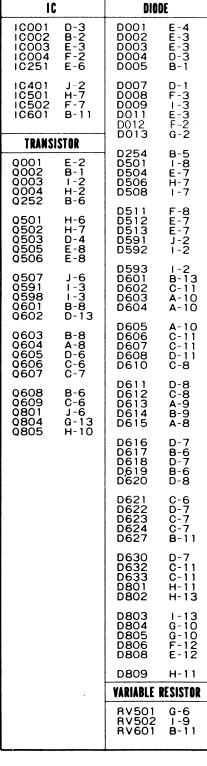
• D BOARD WAVEFORM

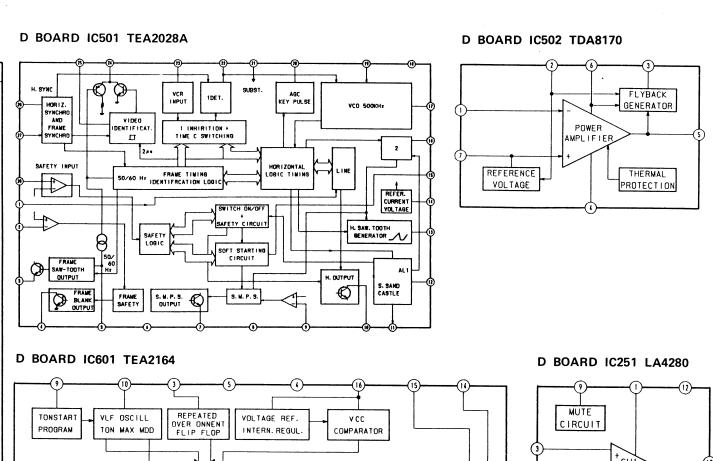






-37-





RECOPY

RIPPLE FILTER

DELAY



OSCILLATOR

SYNC.

SWITCH

START

STOP

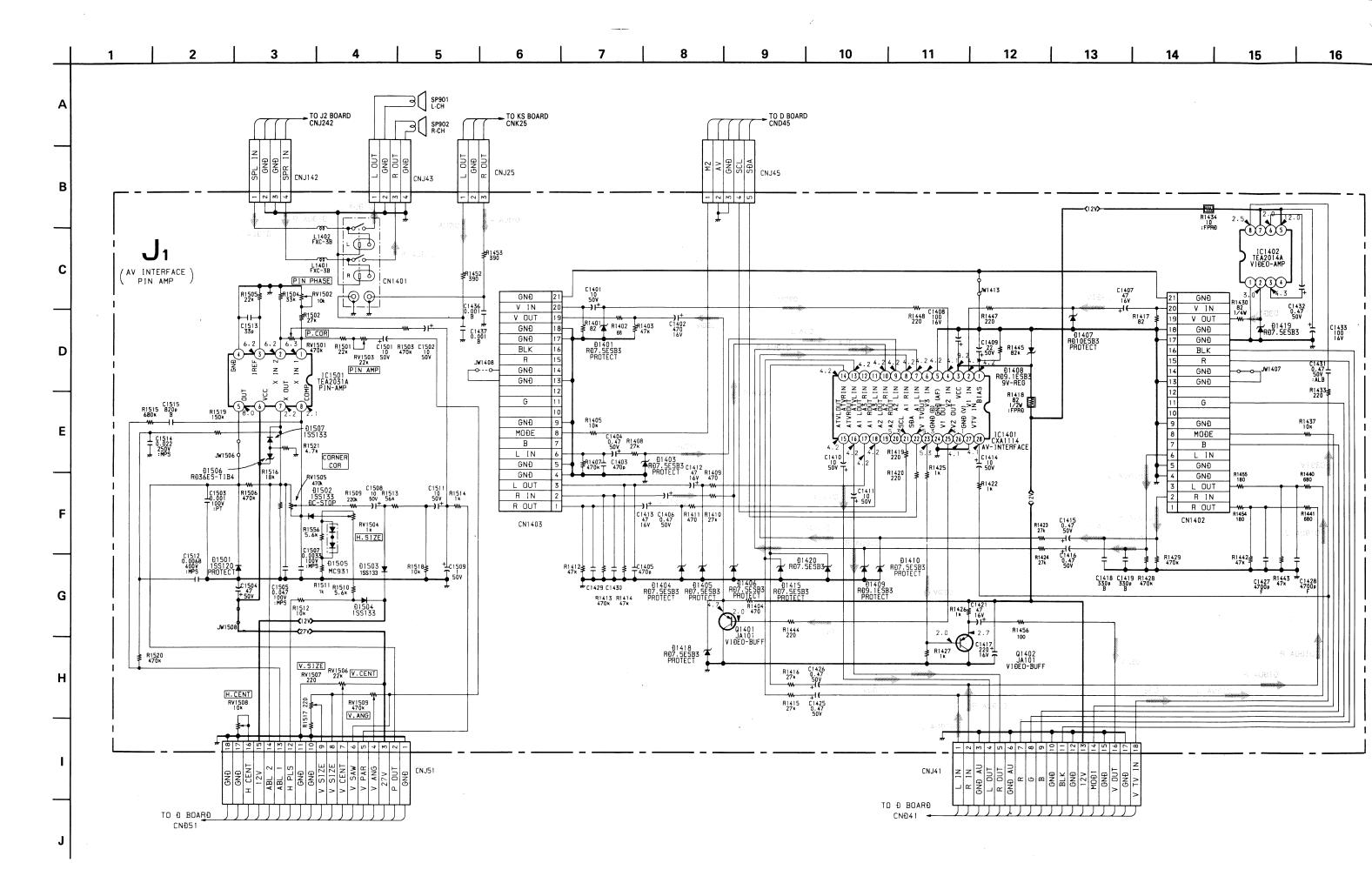
SHAPER

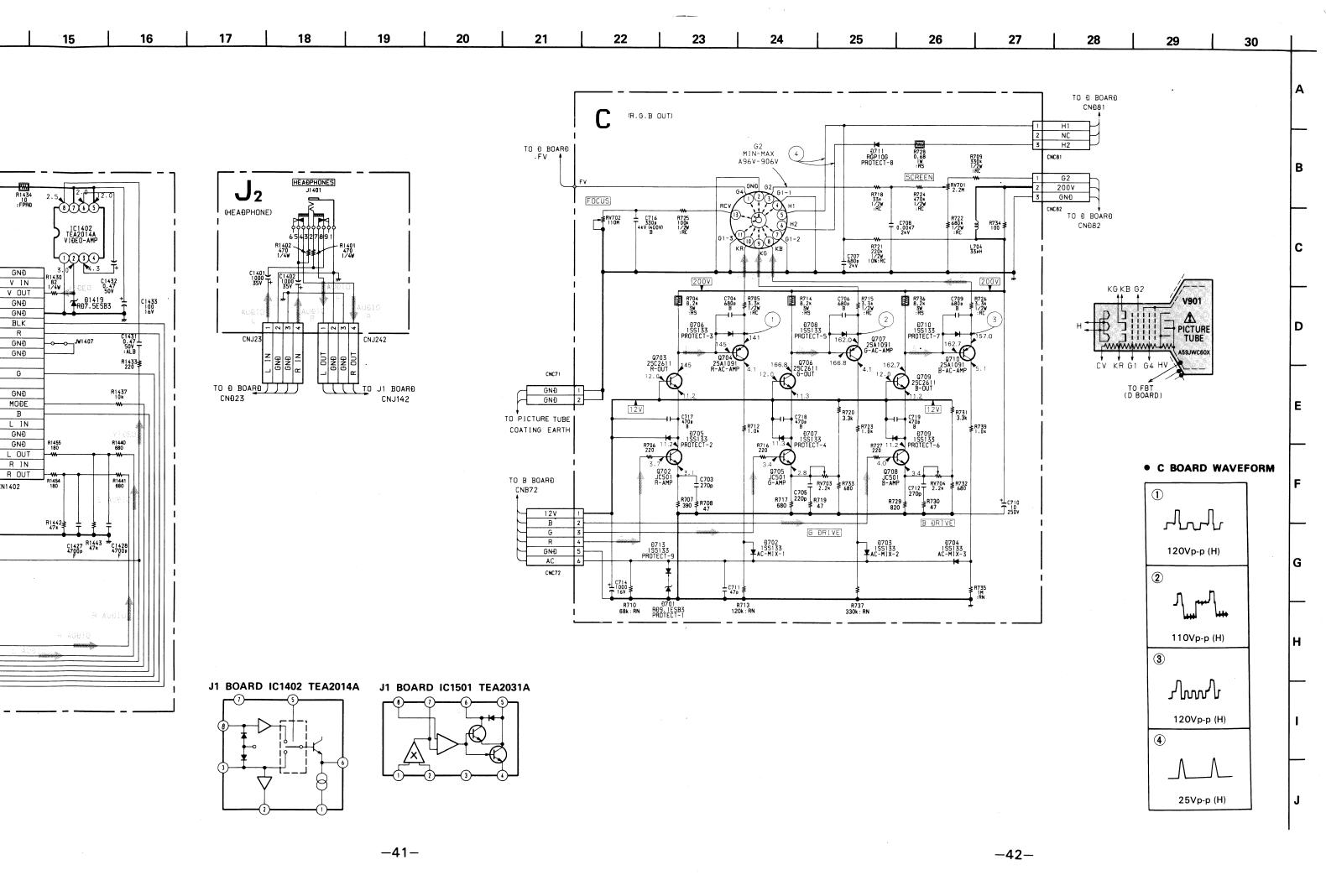
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

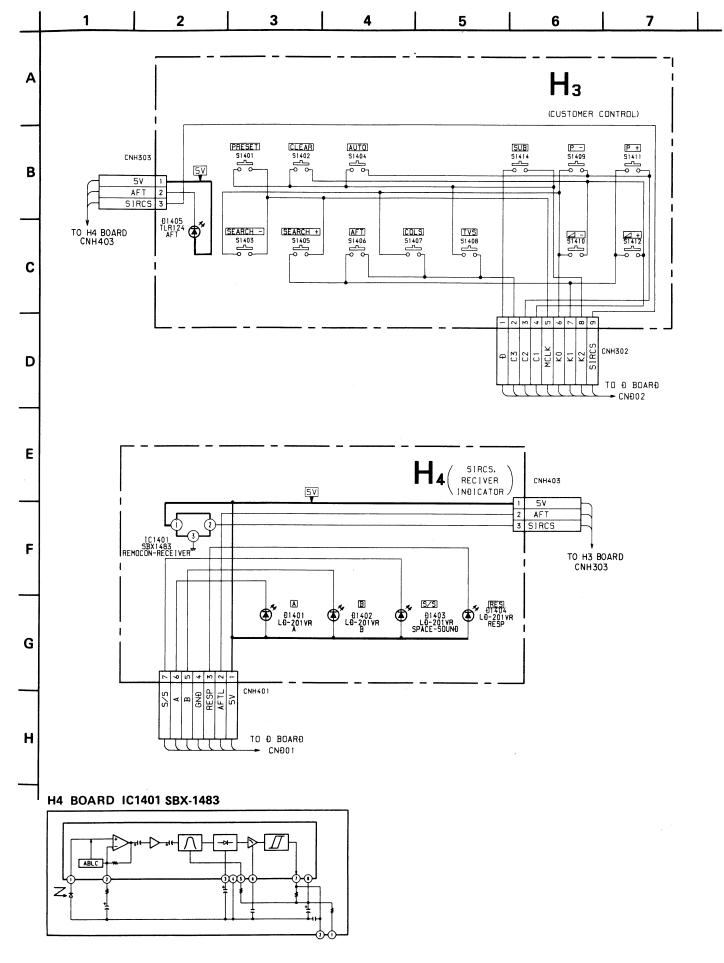
FLIP.FLOP

IC LIMIT

START

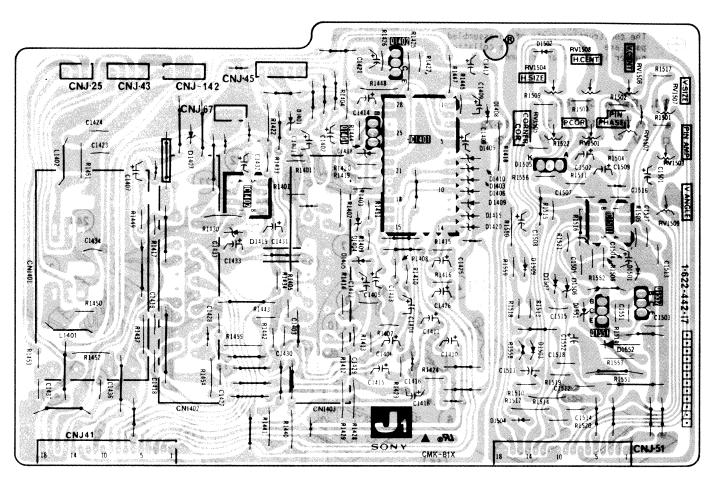




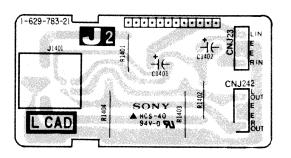


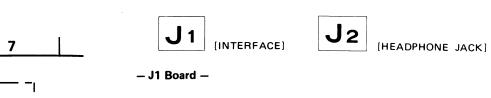


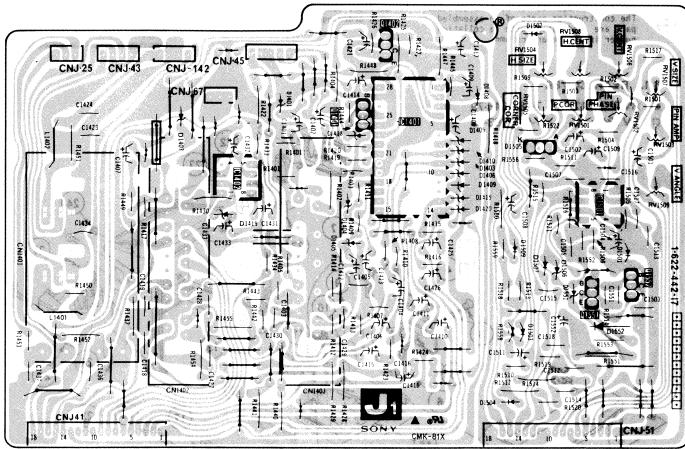
– J1 Board –



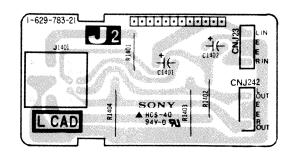
- J2 Board -







- J2 Board -



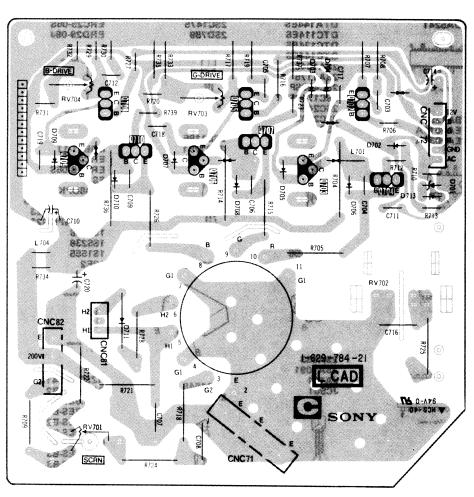




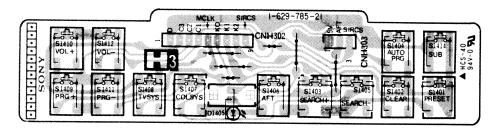


[REMOCON RECEIVER]

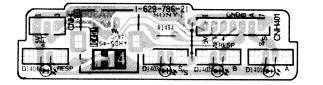
- C Board -



- H3 Board -



- H4 Board -



5-5. SEMICONDUCTORS

BX1387 SBX1483



CXA1114P MAB8461P SAA5231-V6 TDA4555 TDA4580 TDA6200 TDA6600 TEA2028B TMM2063D



CX20061



LA4280



M50436-614SP



M58655P



MB88503H



(Top view)

NJM7812B μPC7812J



SAA5243E SDA5241



(Top view)

TBA129 TEA2014A TEA2031A



TDA2556 TDA2558



TDA2595



TDA3541 TDA4510 TDA8442 TEA2162A TEA2164



TDA8170



μPC574J



DTA114ES DTA144ES DTC114ES DTC124ES DTC124ES 2SA1048 2SA1048 2SA1048 2SC403SP 2SC1740SRT 2SC2458



2SC2603

2SC2710

DTC114EK-2SB815B6 2SC2712G



2SA933 2SA1091 JA101 JC501



2SA1175 2SC2785



2SA1220A 2SC2611 2SC2688 2SC2690A



2SB734 2SC2958 2SD773 2SD774



2SB740 2SC1475 2SD789



2SB1185 2SD1761



2SC2873-Y



2SD1548 2SD1941



CTU-12S



DAN-202K



DAP202K



ERC06-15S ERC25-06S ERD29-08J



EQB01-11 ERC24-06S ERD28-06S ES1F GP08DPKG23 RGP01-17PKG23 RGP10GPKG23

RGP10GPKG23 RGP15GPKG23 1SS168 1SS238 1S1555 10E2



HZS39NB4TD RD3.6ES-B2 RD3.9ES-B1 RD4.7ES-B1



RD9.1ES-B3 RD10ES-B3 RD15ES-B1 RD36ES-B4 RD39ES-B4 1SS119 1SS120



188133

KBU4JL



MA3036H MA3056M MA3068M MA3130L



2 3

MC921



MC931



U05G V19E



SE303AY



SLP162B



SR632D



TLR124 LD201VR



SECTION 6

EXPLODED VIEWS

NOTE:

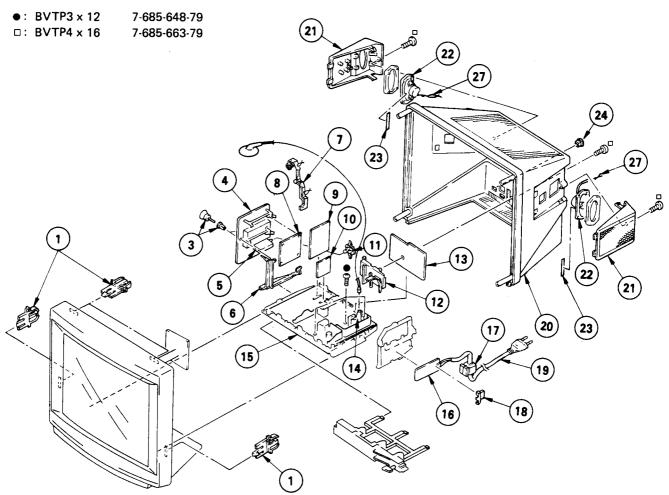
- Items with no part number and no description are not stocked because they are seldom required for routine service
- are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.

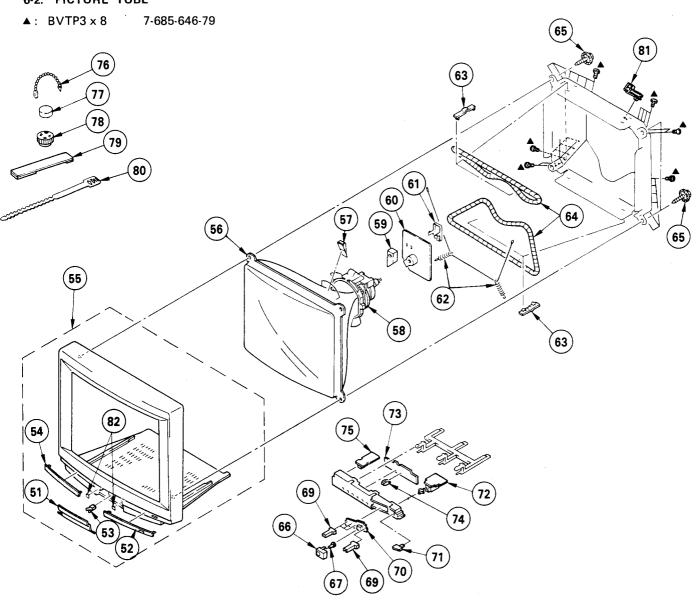
Replace only with part number specified.

6-1. REAR COVER



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
6 *4-386-629-12 7 *4-386-628-11 8 *A-1347-030-A	HOLDER, RC RIVET, T TYPE A BOARD, COMPLETE TUNER, ET (UV-615S) BRACKET, A SUPPORTER, PC BOARD V BOARD, COMPLETE B BOARD, COMPLETE KS BOARD HOLDER, TERMINAL BRACKET, J			J1 BOARD, COMPLETE TRANSFORMER ASSY, FLYBA D BOARD, COMPLETE F1 BOARD HOLDER, AC CODE COVER, POWER CORD, POWER (WITH CONNE COVER, REAR BOARD ASSY, BAFFLE SPEAKER SPACER, BAFFLE BOARD BUSHING, CORD CORD (WITH PLUG)	nger en berjak

6-2. PICTURE TUBE



REF.NO. PART NO.	DESCRIPTION	REMARK	REF. NO	D. PART NO.	DESCRIPTION	REMARK
52	SPACER, DY DEFLECTION YOKE (Y25FXA) COVER (MAIN), CV C BOARD, COMPLETE COVER (REAR LID), CV SPRING HOLDER (D) COIL, DEMAGNETIZATION	51-54	66 67 69 70 71 72 73 74 75 76 77 78 80 81 82	*4-388-955-01 *4-374-987-01 *4-387-825-01 *1-629-786-21 4-389-278-01 *1-629-720-21 *1-629-785-21 *4-384-208-01 *1-629-783-21 4-308-870-00 1-452-094-00 X-4387-214-1 3-701-007-00 *4-387-216-01 4-314-871-00	GUIDE, LIGHT HOLDER, LED H4 BOARD BUTTON. POWER F2 BOARD H3 BOARD H0LDER, LED J2 BOARD CLIP, LEAD WIRE MAGNET, DISK; 10MM MAGNET, ROTATABLE DISK; 150MM PERMALOY ASSY, CONVERGENCE BAND, BINDING HOLDER, LEAD	φ

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.





REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R153 1-249-416-11 R154 1-249-441-11 R155 1-249-430-11 R156 1-247-881-00 R163 1-249-424-11	CARBON 1	320 5% 00K 5% 2K 5% 20K 5% 3.9K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D707 D708 D709 D710	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119) 		
R165 1-249-423-11 R166 1-249-437-11 R174 1-249-429-11 R175 1-249-429-11 R188 1-249-419-11	CARBON 4' CARBON 1' CARBON 1'	3.3K 5% 17K 5% 0K 5% 0K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D711 D713	8-719-911-19 <jac< td=""><td></td><td></td><td></td><td></td></jac<>				
R189 1-249-419-11	CARBON 1	.5K 5%	1/4W		J701	1-526-798-51	SUCKET, PICT	URE TUBE		
<vaf< td=""><td>HABLE RESISTOR></td><td></td><td></td><td></td><td>L704</td><td><01 1-410-878-21</td><td></td><td>33UH</td><td></td><td></td></vaf<>	HABLE RESISTOR>				L704	<01 1-410-878-21		33UH		
RV102 1-237-751-11	RES, ADJ, CARBO	N 10K			L104))UI		
RV103 1-237-753-11	RES, ADJ, CARBU	IN 47K			Q702		NSISTOR> TRANSISTOR 2	SC2785-HFF		
T101 1-404-493-00	NNSFORMER> COIL COIL COIL			;	Q703 Q704 Q705 Q706		TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2611 SA1091 SC2785-HFE		
************		TE	******	******	Q707 Q708 Q709 Q710	8-729-200-17 8-729-119-78 8-729-326-11 8-729-200-17	TRANSISTOR 2	SC2785-HFE SC2611		
	COVER (REAR LID COVER (MAIN), C					<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
*4-386-664-01		.,			R704 R705 R706 R707	1-216-486-00 1-202-824-00 1-249-409-11 1-249-412-11	SOLID CARBON CARBON	8.2K 5% 3.3K 10% 220 5% 390 5%	3W 1/2W 1/4W 1/4W	F
C703 1-102-980-00 C704 1-102-116-00	CERAMIC 270 CERAMIC 680	OPF OPF		50V 50V	R708 R709	1-249-401-11 1-202-844-00	CARBON SOLID	47 5% 330K 10%	1/4W 1/2W	
C705	CERAMIC 22 CERAMIC 68 CERAMIC 68	OPF OPF OPF	5% 10% 10%	50 V 50 V 2 KV	R710 R712 R713	1-215-465-00 1-249-417-11 1-215-471-00 1-216-486-00	METAL CARBON METAL METAL OXIDE	68K 1% 1K 5% 120K 1% 8.2K 5%	1/6W 1/4W 1/6W 3W	F
C708 1-162-114-00 C709 1-102-116-00 C710 1-123-947-00 C711 1-101-880-00 C712 1-102-980-00	CERAMIC 680 ELECT 100 CERAMIC 470 CERAMIC 270	PF OPF	10% 20% 5% 5%	2KV 50V 250V 50V 50V	R715 R716 R717 R718	1-202-824-00 1-249-409-11	CARBON CARBON SOLID	3.3K 10% 220 5% 680 5% 33K 10% 47 5%	1/2W 1/4W 1/4W 1/2W 1/4W	
C714 1-124-360-00 C716 1-162-622-11 C717 1-102-114-00 C718 1-102-114-00 C719 1-102-114-00	CERAMIC 330 CERAMIC 470 CERAMIC 470	OOMF OPF OPF OPF OPF	10% 10% 10%	16V 400V 50V 50V 50V	R721 R722 R723	1-249-423-11 1-202-842-11 1-202-848-00 1-249-417-11 1-202-846-00	CARBON SOLID SOLID CARBON SOLID	3.3K 5% 220K 10% 680K 10% 1K 5% 470K 10%	1/4W 1/2W 1/2W 1/4W 1/4W	
	INECTOR>			j 	R726	1-202-838-00 1-202-824-00	SOLID SOLID	100K 10% 3.3K 10%	1/2W 1/2W	
CNC71 *1-506-371-00 CNC72 *1-564-883-11 CNC81 *1-560-123-00 CNC82 *1-508-765-00	PLUG, CONNECTOR PLUG. CONNECTOR	: 6P : (2.5MM P	17CH) H) 3P	 	R727 R728 R729	1-249-409-11 1-216-347-11 1-249-416-11	CARBON METAL OXIDE CARBON	220 5% 0.68 5% 820 5%	1/4W 1W 1/4W	F
<d10< td=""><td>DDE></td><td></td><td></td><td>,</td><td>R731</td><td>1-249-401-11 1-249-423-11 1-249-415-11</td><td>CARBON CARBON CARBON</td><td>47 5% 3.3K 5% 680 5%</td><td>1/4W 1/4W 1/4W</td><td></td></d10<>	DDE>			,	R731	1-249-401-11 1-249-423-11 1-249-415-11	CARBON CARBON CARBON	47 5% 3.3K 5% 680 5%	1/4W 1/4W 1/4W	
D701 8-719-110-14 D702 8-719-911-19	DIODE RD9.1ES-B3 DIODE 1SS119	3			R733	1-249-415-11 1-249-405-11	CARBON CARBON	680 5% 100 5%	1/4W 1/4W	
D703 8-719-911-19 D704 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R736	1-215-493-00 1-216-486-00	METAL METAL OXIDE	1M 1% 8.2K 5%	1/6W 3W	F
D705 8-719-911-19 D706 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R737 R739	1-215-491-00 1-249-417-11	METAL CARBON	820K 1% 1K 5%	1/6W 1/4W	





REF.N	O. PART NO.	DESCRIPT	ION 		REMARK	REF.NO). PART N	0.	DESCRIPTI			REMARK
		ARIABLE RESI				C509 C510	1-106- 1-161-	220-00 959-00	MYLAR CERAMIC	0.1MF 22PF	10% 10%	100V 500V
RV70 RV70 RV70 RV70	1 1-230-641-1 2 1-230-619-1 3 1-237-749-1 4 1-237-749-1	1 RES, ADJ, 1 RES, ADJ, 1 RES, ADJ, 1 RES, ADJ,	METAL GLAZE METAL GLAZE CARBON 2200 CARBON 2200	2.2M 110M	*******	C511 C512 C513 C514 C515	1-108- 1-106-	220-00 614-11 228-00	MYLAR MYLAR	0.0033MF 0.1MF 0.001MF 0.22MF 1MF	10% 10% 10% 10% 20%	100V 100V 100V 100V 50V
	*A-1345-720-6 *4-341-751-01 *4-341-752-01	********** Eyelet	COMPLETE *******			C516 C517 C518 C519 C520	1-108-0 1-124-1 1-124-1 1-136-1 1-102-1	252-00 902-00 173-00	ELECT ELECT FILM	0.001MF 0.33MF 0.47MF 0.47MF 0.0022MF	10% 20% 20% 5% 10%	100V 50V 50V 50V 50V
	<c#< td=""><td>APACITOR></td><td></td><td></td><td></td><td>C521 C522 C523</td><td>1-124-1 1-108-6</td><td>122-11 514-11</td><td>MYLAR ELECT MYLAR</td><td>0.1MF 100MF 0.001MF</td><td>10% 20% 10%</td><td>100V 50V 100V</td></c#<>	APACITOR>				C521 C522 C523	1-124-1 1-108-6	122-11 514-11	MYLAR ELECT MYLAR	0.1MF 100MF 0.001MF	10% 20% 10%	100V 50V 100V
C001 C003 C004	1-102-973-00 1-106-220-00 1-123-875-11	CERAMIC MYLAR ELECT	100PF 0.1MF 10MF	5% 10% 20%	50V 100V 50V	C524 C525	1-108-7 1-102-9	798-11 973-00	MYLAR CERAMIC	0.0033MF 100PF	5% 5%	50V 50V
C005 C007	1-102-074-00 1-106-383-00 1-101-880-00	CERAMIC MYLAR CERAMIC	0.001MF 0.047MF 47PF	10% 10% 5%	50V 50V 100V	C526 C527 C531 C532 C533	1-102-9 1-106-2 1-124-1 1-124-1 1-106-2	220-00 .90-00 .22-11	MYLAR	15PF 0.1MF 680MF 100MF 0.068MF	5% 10% 10% 20%	50V 100V 25V 50V
C009 C010 C011 C012	1-101-884-00 1-124-122-11 1-101-004-00 1-124-122-11	ELECT CERAMIC	56PF 100MF 0.01MF 100MF	5% 20% 20%	50V 50V 50V 50V	C534 C536 C537	1-124-1 1-131-3 1-124-4	20-11 65-00 99-11	ELECT TANTALUM ELECT		10% 20% 10% 20%	100V 16V 16V 50V
C013 C014 C015	1-101-004-00 1-124-463-00 1-124-910-11	ELECT Elect	0.01MF 0.1MF 47MF	20% 20%	50V 50V 50V	C538 C539 C591	1-108-6 1-102-8 1-123-8	20-00	MYLAR CERAMIC	0.001MF 330PF	10% 5%	100V 50V
CO16 CO17 CO18	1-101-004-00 1-123-875-11 1-102-980-00	ELECT	0.01MF 10MF	20%	50V 50V	C592 C593 C601	1-124-9 1-102-8 1-162-5 1-162-5		ELECT ELECT CERAMIC CERAMIC	10MF 47MF 330PF 0.0047MF	20% 20% 5%	50V 50V 50V 250V
CO19 CO20 CO21	1-106-383-00 1-102-973-00 1-102-973-00	MYLAR CERAMIC CERAMIC	270PF 0.047MF 100PF 100PF	5% 10% 5% 5%	50V 100V 50V 50V	C602 C603 C604	1-162-59 1-162-59 1-125-3	99-12	CERAMIC CERAMIC	0.0047MF 0.0047MF		250V 250V
C022 C023 C024	1-124-910-11 1-124-499-11 1-124-499-11	ELECT	47MF 1MF	20% 20%	50V 50V	C605 C606 C607	1-124-12 1-106-22 1-130-01	22-11 20-00	ELECT (BLOCK ELECT MYLAR FILM	100MF 100MF 0.1MF 0.0012MF	20% 20% 10% 5%	400V 50V 100V 50V
C025 C026 C027	1-102-125-00 1-102-125-00 1-106-220-00	CERAMIC CERAMIC	1MF 0.0047MF 0.0047MF 0.1MF	20% 10% 10% 10%	50V 50V 50V 100V	C608 C611 C612	1-123-87 1-124-12 1-162-11	75-11 22-11 15-00	ELECT ELECT CERAMIC	10MF 100MF 330PF	20% 20% 10%	50V 50V 2KV
C028 C029 C251	1-101-361-00 1-102-121-00 1-124-927-11	CERAMIC	150PF 0.0022MF 4.7MF	5% 10% 20%	50V 50V 50V		1-136-53 1-102-03	89-11 80-00	FILM CERAMIC	0.0022MF 330PF	3% 10%	2KV 500V
C252 C253 C254	1-124-927-11 1-124-122-11 1-124-927-11	ELECT ELECT ELECT	4.7MF 100MF	20% 20%	50V 50V	C616 C618 C619	1-124-55 1-102-03 1-124-63 1-124-55	60-00 7-11 6-11	ELECT CERAMIC ELECT ELECT	1000MF 330PF 1000MF 2200MF	20% 10% 20% 20%	25V 500V 50V 16V
C255 C256 C257	1-124-927-11 1-106-220-00 1-101-004-00	ELECT MYLAR CERAMIC	4.7MF 4.7MF 0.1MF 0.01MF	20% 20% 10%	50V 50V 100V 50V	C621	1-102-07 1-124-34 1-124-55	4-00 7-00	CERAMIC ELECT	0.001MF 100MF	10% 20%	50 V 160V
C258 C260 C265	1-106-220-00 1-106-220-00 1-102-074-00	MYLAR MYLAR CERAMIC	0.1MF 0.1MF 0.001MF	10%	100V 100V	C623 C624	1-124-91 1-124-12 1-124-36	0-11 2-11	ELECT ELECT ELECT ELECT	2200MF 47MF 100MF 1000MF	20% 20% 20% 20%	16V 50V 50V 16V
C266 C401 C403	1-102-074-00 1-102-074-00 1-124-910-11 1-124-910-11	CERAMIC ELECT ELECT	0.001MF 0.001MF 47MF 47MF	10% 10% 20% 20%	50V 50V	C626 C627 C631	1-123-875 1-102-076 1-123-875	5-11 1 4-00 1	ELECT CERAMIC ELECT	10MF 0.001MF 10MF	20% 10%	50V 50V
C501 C502 C503	1-124-927-11 1-124-927-11 1-106-371-00	ELECT ELECT Mylar	4.7MF 4.7MF 0.015MF	20% 20%	50V 50V	C632 C633	1-102-074 1-124-927	1-00 (7-11 i	CERAMIC ELECT	0.001MF 4.7MF	20% 10% 20%	50V 50V 50V
C504 C505	1-101-361-00 1-108-794-11	CERAMIC MYLAR	150PF 0.0015MF	10% 5% 5%	50V 50V	C801 C802	1-123-382 1-126-105 1-102-030	5-11 E)-00 (ELECT ELECT EERAMIC	3.3MF 1000MF 330PF	20% 20% 10%	50V 35V 500V
C506 C507 C508	1-106-375-12 1-130-783-00 1-106-375-12	MYLAR MYLAR MYLAR	0.022MF 0.33MF 0.022MF	10%	250V 100V	C805	l-123-948 l-162-114 l-106-220	i-00 0	CERAMIC	22MF 0.0047MF 0.1MF	20% 10%	250V 2KV 100V



REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C807 1-106-395-00 C810 1-124-494-00 C811 1-136-113-00 C812 1-124-634-11 C813 1-102-212-00	ELECT 3 FILM 2 ELECT 1 CERAMIC 8	MF 320PF	5% 20% 10%	200V 160V 200V 250V 500V	D508 D509 D511 D512 D513	8-719-911-19 8-719-911-19 8-719-911-55 8-719-911-55 8-719-109-81	DIODE 188119 DIODE UO5G DIODE UO5G	
C814 1-161-754-00 C815 1-136-111-00 C817 1-136-565-11 C818 1-136-759-11 C819 A. 1-161-731-11	FILM 1 FILM 0 FILM 0).015MF).039MF	10% 5% 3% 10% 10%	2KV 200V 1.4KV 630V 2KV	D591 D592 D593 D601 D602	8-719-911-19 8-719-911-19 8-719-911-19 8-719-946-90 8-719-925-06	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE KBU4JL-6088 DIODE ERC25-06S	
C820 1-106-218-00 C821 A. 1-162-116-51 C822 1-102-114-00 C823 1-106-359-00 C824 1-102-212-00	CERAMIC 6 CERAMIC 4 MYLAR 0 CERAMIC 8	170PF).0047MF 320PF	10% 10% 10% 10% 10%	400V 2KV 50V 400V 500V	D603 D604 D605 D606 D607	8-719-911-55 8-719-911-55 8-719-911-55 8-719-925-06 8-719-925-06	DIODE UO5G DIODE UO5G DIODE UO5G DIODE ERC25-06S DIODE ERC25-06S	
C825 1-106-375-12 C826 1-123-875-11 <fil< td=""><td></td><td>).022MF LOMF</td><td>10% 20%</td><td>250V 50V</td><td>D608 D610 D611 D612</td><td>8-719-925-06 8-719-300-59 8-719-928-08 8-719-300-59</td><td>DIODE ERC25-06S DIODE CTU-12S DIODE ERC28-06S DIODE CTU-12S</td><td></td></fil<>).022MF LOMF	10% 20%	250 V 50 V	D608 D610 D611 D612	8-719-925-06 8-719-300-59 8-719-928-08 8-719-300-59	DIODE ERC25-06S DIODE CTU-12S DIODE ERC28-06S DIODE CTU-12S	
C826 1-123-875-11 <fil 1-567-686-11="" 1-567-888-11="" <con<="" cf001="" cf501="" td=""><td>OSCILLATOR, CE OSCILLATOR, CE NECTOR></td><td>ERAMIC ERAMIC</td><td></td><td></td><td>D613 D614 D615 D616 D618</td><td>8-719-109-90 8-719-109-93 8-719-109-89</td><td>DIODE ERC25-06S DIODE ERC25-06S DIODE RD5.6ES-B3 DIODE RD6.2ES-B2 DIODE RD5.6ES-B2</td><td></td></fil>	OSCILLATOR, CE OSCILLATOR, CE NECTOR>	ERAMIC ERAMIC			D613 D614 D615 D616 D618	8-719-109-90 8-719-109-93 8-719-109-89	DIODE ERC25-06S DIODE ERC25-06S DIODE RD5.6ES-B3 DIODE RD6.2ES-B2 DIODE RD5.6ES-B2	
CN801 *1-508-765-00 CND01 *1-564-884-11 CND02 *1-564-886-11 CND11 *1-566-660-11 CND12 *1-564-884-11	PIN, CONNECTOR PLUG, CONNECTO PLUG, CONNECTO CONNECTOR, HIN PLUG, CONNECTO	R (5MM PITCH OR 7P OR 9P NGE (PLUG) 1 OR 7P	1) 3P 18P		D620 D622 D623 D624 D627	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119	
CND18 *1-560-290-00 CND19 *1-564-881-11 CND21 *1-564-346-00 CND23 *1-560-124-00 CND31 *1-564-346-00	PIN, CONNECTOR PLUG, CONNECTO PLUG, CONNECTO CONNECTOR, HIN PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO CONNECTOR, BOA PLUG, CONNECTOR, BOA	DR (2.5MM PI DR 4P ARD TO BOARD DR (2.5MM PI ARD TO BOARD	TCH) 18P TCH) 18P		D630 D632 D633 D801 D802 D803	8-719-110-16 8-719-911-19 8-719-925-06 8-719-925-06	DIODE RD15ES-B1 DIODE RD10ES-B1 DIODE 1SS119 DIODE ERC25-06S DIODE ERC25-06S DIODE ES1F	
CND41 *1-566-367-11		NGE (RECEPT <i>a</i> Dr 5P NGE (RECEPT <i>a</i> R 3P	ACLE)		D804 D805 D806 D807	8-719-911-55 8-719-911-55 8-719-945-80 8-719-945-80	DIODE UOSG	,
CND82 *1-508-765-00 CND83 *1-508-786-00 CND84 *1-564-038-00 CND91 *1-560-123-00 CND92 *1-560-125-00	PIN, CONNECTOR CONNECTOR PLUG, CONNECTOR	R (5MM PITCH G, DY (MINI) DR (2.5MM) 3) br 3P		D809		DIODE ERC25-06S	
CND94 *1-560-123-00	·	OR (2.5MM _. PI	ІТСН)		IC001 IC002 IC003 IC004 IC251	8-759-630-06 8-759-979-57 8-759-603-41 8-759-157-40 8-759-803-31	1C M50436-614SP 1C MB88503H-1022G 1C M58655P IC UPC574J 1C LA4280	
D001 8-719-911-19 D002 8-719-911-19 D003 8-719-911-19 D004 8-719-911-19 D005 8-719-109-71	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD3.9ES-	-B1			1C401 1C501 1C502	*4-368-683-01 8-752-006-12 8-759-970-73 8-759-944-57 *4-381-724-01	SPRING: IC251 IC CX20061 IC TEA2028B IC TDA8170 HOLDER, IC; IC502	
D007 8-719-109-89 D008 8-719-110-85 D009 8-719-109-89 D011 8-719-911-19 D012 8-719-911-19	DIODE RD5.6ES- DIODE RD36ES-E DIODE RD5.6ES- DIODE 1SS119 DIODE 1SS119	B4			10601	8-759-946-23 8-759-700-06	IC TEA2164 IC UPC7812H	
D013 8-719-911-19 D254 8-719-110-14 D501 8-719-911-19 D504 8-719-911-55 D506 8-719-000-12	DIODE 1SS119 DIODE RD9.1ES- DIODE 1SS119 DIODE UO5G DIODE MC931	-В3			L001 L501 L601 L602	1-408-225-00 *1-420-872-00	L> INDUCTOR 27UH INDUCTOR 3.3U COIL, AIR CORE FERRITE BEAD INDUCT	Н

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REF.NO	. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	!			REMARK
L603 L605 L606 L607 L803	1-410-396-41 1-459-442-00 1-421-013-00 1-408-421-00 1-459-104-00	DESCRIPTION	25UH		R017 R018 R019 R020 R021	1-249-417-11 1-249-417-11 1-249-433-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON CARBON CARBON	1 K 1 K 22 K 22 K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
L804 L805 L806 L807 L809	1-408-239-00 1-459-652-12 1-459-115-00 1-407-504-00 *1-420-872-00	INDUCTOR 4.7MMH HLC COIL, DCC-H INDUCTOR 10MMH COIL, AIR CORE			R022 R023 R024 R025 R026	1-249-433-11 1-249-429-11 1-249-429-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON CARBON	22K 10K 10K 1K 1K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
F810	1-459-390-00	COIL (WITH CURE)			R027 R028	1-249-417-11 1-249-417-11	CARBON CARBON	1 K 1 K	5% 5%	1/4W 1/4W	
PS601/ PS602/	人1-532-984-91 人1-532-675-91	LINK, IC 2A LINK, IC 1.5A			R029 R030 R031	1-249-417-11 1-249-425-11 1-249-429-11	CARBON CARBON CARBON	1K 4.7k 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td>R032 R033 R034 R035</td><td>1-249-417-11 1-249-413-11 1-249-413-11</td><td>CARBON CARBON CARBON</td><td>1K 470 470</td><td>5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tra<>	NSISTOR>			R032 R033 R034 R035	1-249-417-11 1-249-413-11 1-249-413-11	CARBON CARBON CARBON	1K 470 470	5% 5% 5% 5%	1/4W 1/4W 1/4W	
Q001 Q002 Q003	8-729-600-24 8-729-173-38 8-729-173-38	TRANSISTOR 2SC403SP-51 TRANSISTOR 2SA733-K TRANSISTOR 2SA733-K			R036	1-249-421-11	CARBON	2.2K	5% 5%	1/4W 1/4W 1/4W	
Q004 Q252	8-729-173-38 8-729-900-36	TRANSISTOR 2SA733-K TRANSISTOR DTC124ES			R038 R039 R040	1-249-417-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	1 K 1 K 1 K 1 K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
Q502 Q503 Q505	8-729-173-38 8-729-119-78 8-729-114-96	TRANSISTOR 2SA733-K TRANSISTOR 2SA733-K TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD774-34			R041 R042 R043	1-249-417-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	1 K 1 K 1 K	5% 5%	1/4W 1/4W 1/4W	
Q507	8-729-140-97 8-729-173-38	TRANSISTOR 2SB734-34 TRANSISTOR 2SA733-K TRANSISTOR 2SA733-K		 - -	R044 R045 R046	1-249-429-11 1-249-417-11 1-249-429-11	CARBON CARBON CARBON	10K 1K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
Q598 Q601 Q602	8-729-119-78 8-729-119-78 8-729-122-03 8-729-209-02	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1220A-Q TRANSISTOR 2SD1548-LB		 	R047 R048 R049	1-249-409-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	220 1 K	5% 5%	1/4W 1/4W 1/4W	
Q603	*4-368-683-01 8-729-820-15	SPRING; Q602 TRANSISTOR 2SB1185-E			R050 R051	1-249-433-11 1-249-429-11	CARBON CARBON	22K 10K	5% 5%	1/4W 1/4W	
Q605 Q606	8-729-308-92 8-729-119-78 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE			R052 R053 R054	1-249-439-11 1-249-437-11 1-249-417-11	CARBON CARBON CARBON	68K 47K 1K	5% 5% 5%	1/4W 1/4W 1/4W	
Q607 Q608 Q609	8-729-920-92 *4-368-683-01 8-729-308-92	TRANSISTOR 2SD2096-EF SPRING TRANSISTOR 2SD789-03C			R057	1-249-409-11	CARBON	82K 220	5% 5%	1/4W 1/4W	
Q801 Q804	8-729-119-78 8-729-304-50	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD1941-06			R059 R060 R061	1-249-409-11 1-249-435-11 1-249-436-11 1-249-417-11	CARBON CARBON CARBON	220 33K 39K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
Q805	*4-368-683-01 8-729-119-80	SPRING; Q804 TRANSISTOR 2SC2688-LK			R062 R063	1-249-411-11 1-249-431-11	CARBON CARBON	330	5%	1/4W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td>R067</td><td>1-249-413-11</td><td>CARBON CARBON CARBON</td><td>470 2,2K</td><td>5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></res<>	ISTOR>			R067	1-249-413-11	CARBON CARBON CARBON	470 2,2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R001 R002 R003 R004	1-249-417-11 1-249-417-11 1-249-417-11 1-249-417-11	CARBON 1K 5% CARBON 1K 5% CARBON 1K 5% CARBON 1K 5%	1/4W 1/4W 1/4W	1	R069 R070	1-249-423-11 1-249-417-11	CARBON CARBON	3.3K		1/4W 1/4W	
R005 R006		CARBON 150 5%	1/4W 1/4W 1/4W		R072 R073	1-249-417-11 1-249-417-11	CARBON CARBON CARBON CARBON	1 K 1 K 1 K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
R007 R008 R009	1-249-405-11 1-249-417-11 1-249-417-11	CARBON 100 5% CARBON 1K 5% CARBON 1K 5%	1/4W 1/4W 1/4W		R075 R077	1-249-417-11 1-249-413-11	CARBON CARBON	1K 1K 470	5% 5%	1/4W 1/4W 1/4W	
R010 R011 R012	1-249-413-11	CARBON 470 5% CARBON 1K 5% CARBON 1K 5%	1/4W 1/4W		R078 R079	1-249-423-11 1-249-435-11	CARBON CARBON CARBON	3.3K 33K 10K	5% 5% 5%	1/4W 1/4W 1/4W	
R013 R014 R016	1-249-417-11 1-249-417-11 1-249-417-11 1-249-429-11	CARBON 1K 5½ CARBON 1K 5½ CARBON 1K 5½ CARBON 10K 5½	1/4W 1/4W 1/4W 1/4W		R082	1-249-409-11	CARBON CARBON CARBON	100K 220 10K	5% 5% 5%	1/4W 1/4W 1/4W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO. 	PART NO.	DESCRIPTION				REMARK
R085 R086 R087 R088	1-249-425-11	CARBON CARBON CARBON CARBON	470 10K 1K 1K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R535 R536 R537 R538 R539	1-247-883-00	CARBON CARBON CARBON CARBON	4.2M 2.2M 27K 150K 150K		1/4W 1/4W 1/4W 1/4W 1/4W	
R090 R091 R093 R094 R095	1-249-429-11 1-249-429-11 1-249-409-11	CARBON CARBON CARBON CARBON	470 220 10K 10K 220	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R540 R541 R542 R543 R544	1-249-399-11 1-249-438-11 1-249-425-11 1-249-451-11 1-247-745-11	CARBON CARBON CARBON	33 56K 4.7K 2.2 330	5% 5%% 5%% 5%% 5%% 5%% 5%% 5%% 5%% 5%%	1/4W 1/4W 1/4W 1/4W 1/2W	
R096 R097 R098 R099 R251	1-249-429-11 1-249-429-11 1-215-900-11 1-249-417-11		220 10K 10K 22K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 2W 1/4W	F	R545 R546 R547 R548 R549	1-249-433-11 1-249-434-11 1-249-423-11 1-216-349-11 1-216-454-11	CARBON METAL OXIDE METAL OXIDE	22K 27K 3.3K 1 390 82K		1/4W 1/4W 1/4W 1W 2W	F F
R252 R253 R255 R256 R260	1-249-385-11 1-249-385-11 1-249-393-11	CARBON CARBON CARBON CARBON	470 470 2.2 2.2 10	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F F	R550 R551 R553 R554 R555		METAL OXIDE CARBON CARBON	2.2M 1K 330 2.2M 100		1/4W 1/4W 1W 1/4W 1/4W	
R261 R262 R263 R264 R265	1-249-421-11 1-249-425-11	CARBON CARBON CARBON	10K 470 2.2K 2.2K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R556 R557 R558 R559 R560	1-249-405-11 1-249-425-11 1-247-895-00 1-249-427-11 1-249-411-11	CARBON CARBON CARBON	4.7K 470K 6.8K 330	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R266 R401 R402 R410 R411	1-249-413-11 1-249-413-11	CARBON CARBON CARBON CARBON	4.7K 27K 33K 470 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R591 R592 R593 R594 R595	1-249-427-11 1-249-429-11 1-249-429-11 1-249-424-11 1-249-417-11	CARBON CARBON CARBON CARBON	6.8K 10K 10K 3.9K 1K	5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R412 R500 R501 R502 R503	1-249-409-11 1-249-410-11	CARBON CARBON CARBON CARBON	470 560K 470 220 270	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R596 R597 R598 R599 R602	1-249-425-11 1-249-425-11 1-249-405-11 1-249-405-11 1-215-901-00	CARBON CARBON CARBON METAL OXIDE	4.7K 4.7K 100 100 33K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 2W	F
R504 R505 R506 R507 R509	1-249-428-11 1-247-891-00 1-249-424-11	CARBON CARBON CARBON CARBON	1.8K 15K 8.2K 330K 3.9K		1/6W 1/4W 1/4W 1/4W 1/4W		R607	1-249-414-11 1-215-469-00 1-249-426-11 1-249-434-11	METAL CARBON CARBON	6.8 560 100K 5.6K 27K	5% 5% 1% 5% 5%	1W 1/4W 1/6W 1/4W 1/4W	F
R510 R511 R512 R513 R514		CARBON CARBON CARBON CARBON	5.6K 10K 330K 10K 220	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R611 R612	1-215-901-00 1-249-401-11 1-249-393-11 1-249-385-11 1-207-905-00	CARBON CARBON CARBON WIREWOUND	33K 47 10 2.2 0.27	5% 5% 5% 10%	1/4W 1/4W 1/4W 2W	F F F
R515 R516 R517 R518 R519	1-249-423-11 1-249-408-11 1-249-429-11 1-249-437-11 1-249-433-11	CARBON CARBON CARBON CARBON CARBON	3.3K 180 10K 47K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R613 R614 R616 R617 R618	1-249-401-11 1-205-919-11 1-249-417-11 1-249-411-11 1-216-431-11	CARBON WIREWOUND CARBON CARBON METAL OXIDE	47 220 1K 330 560	5% 10% 5% 5% 5%	1/4W 10W 1/4W 1/4W 1W	F
R520 R521 R522 R523 R524	1-249-411-11 1-249-405-11 1-215-469-00 1-249-417-11 1-249-421-11	CARBON CARBON METAL CARBON CARBON	330 100 100K 1K 2.2K	5% 5% 1% 5%	1/4W 1/4W 1/6W 1/4W 1/4W		R619 R620 R621 R622 R623	1-249-429-11 1-249-433-11 1-249-431-11 1-249-429-11 1-249-385-11	CARBON CARBON CARBON CARBON CARBON	10K 22K 15K 10K 2.2	5% 5%% 5%% 5%%		F
R525 R526 R527 R528 R529	1-249-417-11 1-249-409-11 1-249-431-11 1-249-408-11 1-249-427-11	CARBON CARBON CARBON CARBON CARBON	1K 220 15K 180 6.8K	5% 5% 5% 5%	1/4W 1/4W 1/4W	F	R624 R625 R626 R628 R629	1-249-411-11 1-215-865-11 1-249-411-11 1-249-393-11 1-249-411-11	CARBON METAL OXIDE CARBON CARBON CARBON	330 220 330 10 330	5% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1W 1/4W 1/4W 1/4W	
R530 R531 R532 R534	1-249-448-11 1-247-881-00 1-249-417-11 1-247-901-11	CARBON CARBON CARBON CARBON	1.2 120K 1K 820K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	ř	R630 R633 R634	1-249-437-11 1-249-405-11 1-216-430-11	CARBON CARBON METAL OXIDE	47K 100 390	5% 5% 5%	1/4W 1/4W 1W	





REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO	D. PART NO.	DESCRIPTION		REMARK
R635 1-249-429-11 R636 1-249-429-11 R642 1-216-343-00 R643 1-217-192-21 R647 1-216-485-11	CARBON METAL OXIDE WIREWOUND	10K 10K 0.33 0.22 5.6K	5% 5% 5% 10% 5%	1/4W 1/4W 1W 2W 3W	7 7 7	1	********	1P TERMINAL PIN	******	******
R648 1-216-485-11 R649 1-249-385-11 R650 1-249-417-11 R651 1-249-405-11 R652 1-247-903-00	CARBON CARBON CARBON	5.6K 2.2 1K 100 1M	5% 5% 5% 5%	3W 1/4W 1/4W 1/4W 1/4W	F		*4-380-698-01 *4-380-699-01	V BOARD, COMPLETE ***********************************	ELD. A1	
R802 1-249-443-11 R805 1-249-448-11 R806 1-249-439-11 R807 1-216-869-11 R809 1-202-821-11	CARBON METAL OXIDE	0.47 1.2 68K 1K 1.8K	5% 5% 5% 5% 10%	1/4W 1/4W 1/4W 1W 1/2W	F	C01 C02 C03	1-126-101-11 1-124-120-11	ELECT 220MF	20% 20%	16V 16V
R810 1-202-818-00 R811 1-215-882-00 R812 1-249-494-11 R815 1-215-884-11 R816 1-215-868-00	METAL OXIDE CARBON METAL OXIDE	1K 22 68K 47 680	10% 5% 5% 5%	1/2W 2W 1/2W 2W 1W	F	C04 C05 C06 C07	1-124-119-00 1-124-477-11 1-126-101-11 1-124-120-11 1-124-499-11	ELECT 47MF ELECT 100MF ELECT 220MF ELECT 1MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 50V
R817 1-249-417-11 R820 1-249-403-11 R821 1-247-725-11 R822 1-217-778-11 R825 1-216-345-11	FUSIBLE	1K 68 10K 1K 0.47	5% 5% 5% 5%	1/4W 1/4W 1/4W 1W 1W	F F	C08 C09 C10 C11 C12	1-163-097-00 1-163-141-00 1-163-133-00 1-163-037-11	CERAMIC CHIP 15PF CERAMIC CHIP 0.001MF CERAMIC CHIP 470PF	5% 5% 5% 10%	50V 50V 50V 25V 50V
R826 1-249-441-11 R827 1-249-429-11 R828 1-249-423-11 R829 1-249-416-11 R830 1-249-429-11	CARBON CARBON CARBON CARBON	100K 10K 3.3K 820		1/4W 1/4W 1/4W 1/4W	,	C13 C14 C15	1-163-117-00 1-163-097-00 1-163-103-00 1-163-021-00	CERAMIC CHIP 100PF CERAMIC CHIP 15PF CERAMIC CHIP 27PF CERAMIC CHIP 0.01MF	5% 5% 5% 10%	50V 50V 50V
R831 1-249-451-11 R1001 1-249-421-11 R1002 1-249-423-11 R1003 1-249-413-11	CARBON CARBON CARBON	10K 2.2 2.2K 3.3K 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C17 C18 C19 C20	1-163-809-11 1-163-099-00 1-163-809-11 1-163-125-00 1-163-833-00	CERAMIC CHIP 18PF CERAMIC CHIP 0.047MF CERAMIC CHIP 220PF	10% 5% 10% 5%	25V 50V 25V 50V
R1005 1-249-408-11 R1006 1-249-408-11 R1007 1-249-408-11 R1008 1-249-409-11 R1009 1-249-417-11	CARBON CARBON CARBON CARBON CARBON CARBON	180 180 180 220 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C24 C25 C27 C28	1-126-101-11 1-124-477-11 1-163-129-00 1-163-137-00	ELECT 100MF ELECT 47MF CERAMIC CHIP 330PF CERAMIC CHIP 680PF	20% 20% 5% 5%	16V 16V 50V 50V
R1012 1-249-405-11 R5501 1-249-429-11 R5502 1-249-417-11 R5503 1-249-389-11	CARBON CARBON CARBON CARBON	100 10K 1K 4.7	5% 5% 5%	1/4W 1/4W 1/4W 1/4W		C29 C51 C52 C53 C54	1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	50V 25V 25V 25V 25V
	CARBON IABLE RESISTOR		5 %	1/4W 1/4W		C55 C56 C57 C58 C59	1-163-038-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5%	25V 25V 50V 50V 50V
KV502 1-228-994-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 10.	K				<con< td=""><td>NECTOR></td><td></td><td></td></con<>	NECTOR>		
	RK GAP>					V1 V2	*1-560-123-00 *1-560-125-00 *1-560-126-00 *1-560-123-00	PIN, CONNECTOR (5MM PID PLUG, CONNECTOR (2.5MM) PLUG, CONNECTOR (2.5MM) PLUG, CONNECTOR (2.5MM) PLUG, CONNECTOR (2.5MM) PLUG, CONNECTOR (2.5MM)	3P 5P 6P PITCH)	
<tra< td=""><td>NSFORMER></td><td></td><td></td><td></td><td>ļ</td><td></td><td>∠TD1</td><td>MMER></td><td></td><td></td></tra<>	NSFORMER>				ļ		∠TD1	MMER>		
T601 A. 1-448-961-31 T602 A. 1-424-011-12 T801 I-437-090-00 T802 A. 1-439-416-11	TRANSFORMER, I HDT		.YBACK			CT01	1-141-392-11	CAP, VAR, TRIMMER (1 GA	NG)	
<ter.< td=""><td>MINAL PIN></td><td></td><td></td><td></td><td> </td><td>D01</td><td><dio 8-719-400-47</dio </td><td>DE> DIODE MA3056M</td><td></td><td></td></ter.<>	MINAL PIN>				 	D01	<dio 8-719-400-47</dio 	DE> DIODE MA3056M		





REF.NO.	PART NO.	DESCRIPTION			REMAR	K REF.NO.	PART NO.	DESCRIPTION	l -		REMARK
D02 D03 D04 D07 D08	8-719-400-95 8-719-400-18 8-719-105-52 8-719-400-63 8-719-400-63	DIODE MA3130L DIODE MA152WK DIODE RD3.6M-I DIODE MA3068M DIODE MA3068M	B2			R38 R40 R41 R43 R44	1-216-047-00 1-216-065-00 1-216-041-00 1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 5% 4.7K 5% 470 5% 4.7K 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D09 D10 D11 D12	8-719-400-18 8-719-914-44 8-719-914-44	DIODE MA152WK DIODE MA152WK DIODE DAP202K DIODE DAP202K				R45 R46 R51 R52 R53	1-216-049-00 1-216-311-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 6.8 5% 4.7K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
IC1 IC2 IC3 IC4	8-759-972-96 8-759-013-21	IC MAB8461P-W IC SAA5231-V6 IC SDA5241 IC TMM2063P-7				R54 R55 R56 R57 R58	1-216-065-00 1-216-057-00 1-216-065-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 2.2K 5% 4.7K 5% 4.7K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<001	L>				R59 R60 R61	1-216-056-00 1-216-063-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	2K 5% 3.9K 5% 8.2K 5%	1/10W 1/10W 1/10W	
L01 L02	1-408-411-00 1-408-407-00	INDUCTOR INDUCTOR	15UH 6.8UI	H		R62 R63	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	8.2K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W	
L03 L04 L05	1-408-407-00 1-408-407-00 1-408-407-00	INDUCTOR INDUCTOR INDUCTOR	6.8UI 6.8UI 6.8UI	-		R64 R65	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5%	1/10W 1/10W	
L06	1-408-407-00	INDUCTOR.	6.80	Н		R66 R67 R68	1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td>R69</td><td>1-216-065-00</td><td></td><td>4.7K 5%</td><td>1/10W</td><td></td></tra<>	NSISTOR>				R69	1-216-065-00		4.7K 5%	1/10W	
Q01 Q02	8-729-807-50	TRANSISTOR 2S TRANSISTOR 2S	D1623-I	EF R			<v ar<="" td=""><td>IABLE RESISTO</td><td>ir></td><td></td><td></td></v>	IABLE RESISTO	ir>		
Q03 Q04 Q05	8-729-900-53 8-729-271-22 8-729-807-50	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR 2S	C2712-0 D1623-1	R		RV01	1-238-009-11	RES, ADJ, CA	RBON 220		
Q06 Q07 Q09	8-729-271-22 8-729-900-98 8-729-800-68	TRANSISTOR 2S TRANSISTOR DT TRANSISTOR 2S	C143TK B815B6	Gi			<cry< td=""><td>STAL></td><td></td><td></td><td></td></cry<>	STAL>			
Q10 Q11	8-729-800-68 8-729-800-68	TRANSISTOR 2S TRANSISTOR 2S	B815B6			X01 X02 X03	1-567-162-21 1-567-495-21 1-577-082-11		CRYSTAL		
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>*****</td><td>******</td><td></td><td></td><td>******</td><td>******</td></res<>	ISTOR>				*****	******			******	******
R01 R02 R04 R05	1-218-326-11 1-216-065-00 1-218-326-11 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 4.7K 470 100	5% 5%	1/2W 1/10W 1/2W 1/10W		*A-1371-373-A	J1 BOARD, CO			
R06	1-216-049-00	METAL GLAZE	1 K	5%	1/10W	61401		ACITOR>	1045	208	E OV
R07 R08 R09 R13 R14	1-216-025-00 1-216-037-00 1-216-091-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 330 56K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1401 C1402 C1403 C1404 C1405	1-123-875-11 1-126-103-11 1-102-112-00 1-124-902-00 1-101-003-00	ELECT ELECT CERAMIC ELECT CERAMIC	10MF 470MF 330PF 0.47MF 0.0047MF	20% 20% 10% 20%	50V 16V 50V 50V 50V
R15 R16 R17 R18	1-216-121-00 1-216-055-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 1.8K 1K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C1406 C1407 C1408 C1409	1-124-902-00 1-124-477-11 1-126-101-11 1-126-233-11	ELECT ELECT ELECT ELECT	0.47MF 47MF 100MF 22MF	20% 20% 20% 20%	50V 16V 16V 50V
R19 R20	1-216-037-00 1-216-043-00	METAL GLAZE METAL GLAZE	330 560		1/10W 1/10W	C1410 C1411	1-123-875-11 1-123-875-11	ELECT ELECT	10MF 10MF	20% 20%	50V 50V
R20 R27 R28 R29 R30	1-216-013-00 1-216-013-00 1-216-013-00 1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33 33 33 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	C1412 C1413 C1414 C1415	1-124-477-11 1-124-477-11 1-123-875-11 1-124-902-00	ELECT ELECT ELECT ELECT	47MF 47MF 10MF 0.47MF	20% 20% 20% 20% 20%	16V 16V 50V 50V
R31 R32	1-218-325-11 1-218-325-11	METAL GLAZE METAL GLAZE	120 120		1/4W 1/4W	C1416 C1417	1-124-902-00 1-124-120-11	ELECT ELECT	0.47MF 220MF	20% 20%	5 0V 1 6V
R33 R34 R37	1-216-023-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	82 1K 100	5% 5% 5%	1/10W 1/10W 1/10W	C1418 C1419 C1421	1-102-112-00 1-102-112-00 1-124-477-11	CERAMIC CERAMIC ELECT	330PF 330PF 47MF	10% 10% 20%	5 0 V 5 0 V 1 6 V

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C1423 1-106-375-12 C1424 1-106-375-12 C1425 1-124-902-00 C1426 1-124-902-00 C1427 1-101-003-00	MYLAR MYLAR ELECT ELECT CERAMIC	0.022MF 0.022MF 0.47MF 0.47MF 0.0047MF	10% 10% 20% 20%	250V 250V 50V 50V 50V	IC1402	8-752-032-27 [°] 8-759-946-32 8-759-942-16	IC TEA2014A				
C1431 1-124-902-00 C1432 1-124-902-00	CERAMIC CERAMIC ELECT ELECT	0.0047MF 0.0047MF 330PF 0.47MF 0.47MF	10% 20% 20%	50V 50V 50V 50V 50V	L1401 L1402	<01 1-412-043-11 1-412-043-11	L> INDUCTOR, WID INDUCTOR, WID	E BAND E BAND			
C1433 1-126-101-11 C1436 1-102-074-00 C1437 1-102-074-00 C1501 1-123-875-11 C1502 1-123-875-11	CERAMIC	100MF 0.001MF 0.001MF 10MF 10MF	20% 10% 10% 20% 20%	16V 50V 50V 50V 50V	Q1401 Q1402	8-729-173-38	NSISTOR> TRANSISTOR 2S TRANSISTOR 2S	A733-K A733-K			
C1503 1-108-614-11 C1504 1-124-910-11	MYLAR	0.001MF	10% 20%	100V 50V	1	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
C1505 1-106-383-00 C1507 1-108-620-11 C1508 1-123-875-11		0.001MF 47MF 0.047MF 0.0033MF 10MF	10% 10% 20%	100V 100V 50V	R1402 R1403 R1404	1-249-404-00 1-247-698-11 1-249-437-11 1-249-413-11	CARBON CARBON CARBON	82 68 47K 470 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C1509 1-124-499-11 C1511 1-123-875-11 C1512 1-106-363-00	ELECT ELECT MYLAR	1MF 10MF 0.0068MF	20% 20% 10%	50V 50V 400V	!	1-249-429-11 1-247-895-00		470K	5%	1/4W 1/4W	
C1513 1-102-963-00	CERAMIC MYLAR	33PF 0.027MF	5% 10%	50V 250V	R1408	1-249-434-11 1-249-413-11	CARBON	27K 470	5% 5% 5%	1/4W 1/4W	
C1515 1-102-117-00			10%	50 V	R1410	1-249-434-11 1-249-413-11	CARBON	27K 470	5% 5%	1/4W 1/4W	
<pre><con 1-536-996-11="" 1-561-534-41<="" cn1401="" cn1402="" pre=""></con></pre>	NECTOR>				R1412 R1413 R1414	1-249-437-11 1-247-895-00 1-249-437-11	CARBON CARBON	47K 470K 47K	5% 5% 5%	1/4W 1/4W 1/4W	
CN1401 1-536-996-11 CN1402 1-561-534-41	TERMINAL BOA SOCKET 21P	ARD, INPUT/O	JTPUT		R1415 R1416	1-249-434-11 1-249-434-11	CARBON	27K 27K	5% 5%	1/4W 1/4W	
CN1403 1-561-534-41 CNJ25 *1-564-892-41 CNJ41 *1-566-641-11	SOCKET 21P PLUG, CONNEC CONNECTOR, I	CTOR 3P HINGE (TAB)	18P		R1417 R1418 R1419	1-249-404-00 1-247-738-11 1-249-409-11	CARBON CARBON CARBON	82 82 220	5% 5% 5%	1/4W 1/2W 1/4W	F
CNJ43 *1-564-893-11 CNJ45 *1-564-894-11 CNJ51 *1-566-641-11	PLUG, CONNECTOR, I	CTOR 4P CTOR 5P HINGE (TAB)	18P		R1420 R1422	1-249-409-11 1-249-417-11	CARBON CARBON	220 1K 27K	5% 5%	1/4W 1/4W 1/4W	
CN1402 1-561-534-41 CN1403 1-561-534-41 CNJ25 *1-564-892-41 CNJ41 *1-566-641-11 CNJ43 *1-564-893-11 CNJ45 *1-564-894-11 CNJ51 *1-560-721-21 CNJ67 *1-560-721-21 CNJ142*1-564-893-11	PLUG, CONNEC	CTOR 4P			R1424 R1425 R1426	1-249-434-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	27K 1K 1K	5% 5% 5%	1/4W 1/4W 1/4W	
OIC	IDE>	ec no			R1427	1-249-417-11	CARBON	1K 470K	5% 5%	1/4W 1/4W	
D1401 8-719-110-04 D1403 8-719-110-04 D1404 8-719-110-04 D1405 8-719-110-04 D1406 8-719-110-04	DIODE RD7.51 DIODE RD7.51 DIODE RD7.51 DIODE RD7.51 DIODE RD7.51	ES-B3 ES-B3			R1429 R1430 R1433 R1434	1-247-895-00 1-247-895-00 1-247-699-11 1-249-409-11 1-249-393-11	CARBON METAL CARBON CARBON	470K 82 220 10		1/4W 1/4W 1/4W	F
D1407 8-719-110-18	DIODE RD10E				R1437	1-249-429-11	CARBON	10K	5%	1/4W	
D1408 8-719-110-14 D1409 8-719-110-04 D1410 8-719-110-04 D1415 8-719-110-04	DIODE RD9.11 DIODE RD7.51 DIODE RD7.51 DIODE RD7.51	ES-B3 ES-B3			R1440 R1441 R1442 R1443	1-249-415-11 1-249-415-11 1-249-437-11 1-249-437-11	CARBON CARBON CARBON CARBON	680 680 47K 47K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
D1418 8-719-110-04 D1419 8-719-110-04	DIODE RD7.51 DIODE RD7.51	ES-B3 FS-R3			R1444 R1445	1-249-409-11 1-249-440-11	CARBON CARBON	220 82K	5% 5%	1/4W 1/4W	
D1420 8-719-110-04 D1501 8-719-912-20 D1502 8-719-911-19	DIODE RD7.50 DIODE 1SS120 DIODE 1SS11	ES-B3 O			R1447 R1448 R1452	1-249-409-11 1-249-409-11 1-249-412-11	CARBON CARBON CARBON	220 220 390	5% 5% 5% 5%	1/4W 1/4W 1/4W	
D1503 8-719-911-19 D1504 8-719-911-19 D1505 8-719-000-12	DIODE 18811 DIODE 18811	9			R1453 R1454	1-249-412-11 1-247-703-11	CARBON METAL	390 180	5% 5%	1/4W 1/4W	
D1505 8-719-000-12 D1506 8-719-110-85 D1507 8-719-911-19	DIODE MC931 DIODE RD36E DIODE 1SS11	S-B4			R1455 R1456 R1501	1-247-703-11 1-249-405-11 1-249-433-11	METAL CARBON CARBON	180 100 22K	5% 5% 5%	1/4W 1/4W 1/4W	
		•			R1502	1-249-434-11	CARBON	27K	5%	1/4W	
<103	>				¦ R1503	1-247-895-00	CARBON	470K	5%	1/4W	

SECTION 7 **ELECTRICAL PARTS LIST**

NOTE:

C354

C355

1-102-074-00

1-102-816-00 CERAMIC

CERAMIC

0.001MF

120PF

The components identified by shading and mark $ext{$ \triangle $}$ are criti-

cal for safety.

Replace only with part number specified. specified. .

- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

When indicating parts by reference number, please include the board name.

CAPACITORS • MF : µF, PF : µµF COILS

• MMH : inH, UH : μH

Note) In this parts list, the mounting diagram is for a different product. Therefore, an excess of parts is listed.

· All resistors are in ohms • F : nonflammable REF. NO. PART NO. DESCRIPTION REMARK | REF. NO. PART NO. DESCRIPTION REMARK *A-1135-498-A B BOARD, COMPLETE C357 1-102-965-00 CERAMIC **39PF** 507 C358 1-124-963-11 1-102-963-00 ******* ELECT CERAMIC 33MF 20% 161 C359 33PF 500 1-101-004-00 C360 CERAMIC 0.01MF 501 <CAPACITOR> 0.01MF 0.22MF 0.22MF 100MF 10% 10% 20% 10% 1-101-361-00 1-124-477-11 0.3011-106-228-00 MYLAR 100V C364 CERAMIC 150PF 50**V** 5% C302 1-106-228-00 MYLAR 1-126-101-11 ELECT C365 C366 20% 20% 1007 ELECT 47MF 167 C303 16V 1-124-477-11 ELECT 47MF 161 1-106-228-00 1-124-119-00 0.22MF C304 1007 1-101-004-00 MYLAR C367 CERAMIC 0.01MF 50V C305 ELECT 330MF 20% 161 C368 5% 20% 20% 20% 1-101-880-00 CERAMIC 47PF 50V 1-124-902-00 1-124-902-00 20% 20% 20% 1-124-902-00 1-124-927-11 1-124-477-11 0.47MF 4.7MF 47MF C306 ELECT 0.47MF 50V C381 ELECT 50V C307 C308 ELECT 0.47MF 50V C382 ELECT 501 1-124-902-00 1-124-902-00 1-124-902-00 0.47MF 0.47MF ELECT 50V C384 **ELECT** 16V C309 50V FIFCT 20% C385 1-124-927-11 ELECT 4.7MF 20% 50V C310 1001 1-106-220-00 0.1MF 10% MYLAR C387 1-124-902-00 ELECT C1311 1-101-884-00 CERAMIC 0.47MF 20% 500 C311 1-106-220-00 MYLAR 0.1MF 10% 100V 56PF 5% 501 C312 C313 1-124-902-00 1-124-902-00 20% 20% 20% 0.47MF 50**V** ELECT 0.47MF 50V C314 1-124-902-00 ELECT 0.47MF 50V <CONNECTOR> C315 20% 1-124-499-11 ELECT 1MF 50**V** CNB31 *1-562-370-21 CONNECTOR, BOARD TO BOARD 18P CNB72 *1-564-895-11 PLUG, CONNECTOR 6P CNB93 *1-560-278-41 PLUG, CONNECTOR 6P 47MF 270PF 20% 5% 5% C319 16 1-124-477-11 1-102-980-00 ELECT 50V 50V C321 CERAMIC C322 C325 68PF 1-101-888-00 CERAMIC -124-477-11 47MF 161 C326 1-101-004-00 0.01MF 50V <TRIMMER> 1-101-004-00 1-101-004-00 1-124-963-11 1-124-119-00 CT331 1-141-181-11 CAP, TRIMMER CT332 1-141-181-11 CAP, TRIMMER CERAMIC 0.01MF 50**V** C330 0.01MF 33MF CERAMIC 50**Y** C331 20% ELECT 16V C332 330MF 20% 161 ELECT C333 1-101-005-00 CERAMIC 0.022MF <DIODE> 50**V** DIODE 1SS119 DIODE 1SS119 C334 8-719-911-19 8-719-911-19 101-884-00 CERAMIC 56PF 5% 50**V** D301 1-101-006-00 1-106-367-00 C335 CERAMIC 0.047MF 50V D302 C336 C337 8-719-911-19 8-719-911-19 DIODE 1SS119 DIODE 1SS119 MYLAR 0.01MF 10% 400V D303 CERAMIC 1-101-004-00 0.01MF 50V D304 C338 1-101-888-00 CERAMIC 68PF 5% 50V D305 8-719-911-19 DIODE 188119 1-102-816-00 CERAMIC 120PF 50V 50V DIODE RD11ES-B3 5% 5% 5% 5% 5% D307 8-719-110-23 C340 C341 1-102-953-00 1-102-978-00 CERAMIC **18PF** D309 8-719-911-19 8-719-911-19 DIODE 1SS119 DIODE 1SS119 220PF CERAMIC 50V D331 C342 1-102-953-00 CERAMIC **18PF** 50V 8-719-911-19 DIODE 188119 C343 120PF 1-102-816-00 8-719-911-19 CERAMIC 50**V** DIODE 1SS119 5% 5% 10% 20% 20% C344 68PF 1-101-888-00 CFRAMIC <u>5</u>0V 1-102-978-00 1-102-074-00 C345 220PF CERAMIC 50V <DELAY LINE> C346 CERAMIC 0.001MF 501 DL331 1-415-122-00 DELAY LINE DL332 1-236-062-11 MODULE, Y DELAY LINE C347 1-124-499-11 1MF ELECT 501 C348 1-124-499-11 1MF 50V C349 1-136-173-00 FILM 0.47MF 501 10% 10% 10% 10% C350 1-106-383-00 1-106-375-12 1-106-375-12 MYLAR 0.047MF 100V <10> C351 0.022MF 0.022MF 250V 250V MYLAR C352 MYLAR IC301

10302 TC331

50V

500

5%



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
<001	L>		R328 R329 R330	1-249-397-11 1-249-397-11 1-249-397-11 1-249-418-11		22 22 22	5% 5% 5%	1/4W 1/4W 1/4W	
L301 1-410-868-21 L302 1-410-868-21 L303 1-408-408-00 L304 1-408-409-00 L331 1-408-408-00	INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 8.2UH INDUCTOR 10UH INDUCTOR 8.2UH		R331 R332 R333 R334 R335	1-249-418-11 1-249-401-11 1-249-412-11 1-249-408-11 1-249-415-11	CARBON CARBON CARBON	1.2K 47 390 180 680		1/4W 1/4W 1/4W 1/4W 1/4W	
L332	DESCRIPTION		R336 R337 R338 R339	1-249-418-11 1-247-848-11 1-249-429-11 1-249-409-11	CARBON CARBON CARBON CARBON	1.2K 5.1K 10K 220		1/4W 1/4W 1/4W 1/4W	
L338 1-408-416-00 L339 1-410-868-21	INDUCTOR 39UH INDUCTOR 4.7UH		R340 R341	1-249-437-11 1-249-410-11	CARBON	47K 270		1/4W 1/4W	
<tra< td=""><td>INSISTOR></td><td></td><td>R342 R343 R344 R346</td><td>1-249-429-11 1-249-429-11 1-249-437-11 1-249-419-11</td><td>CARBON CARBON CARBON</td><td>10K 10K 47K 1.5K</td><td>5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></tra<>	INSISTOR>		R342 R343 R344 R346	1-249-429-11 1-249-429-11 1-249-437-11 1-249-419-11	CARBON CARBON CARBON	10K 10K 47K 1.5K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
Q302 8-729-119-78 Q303 8-729-119-78 Q305 8-729-900-36	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124ES		R347 R348	1-249-429-11 1-249-437-11		10K 47K	5%	1/4W 1/4W	
Q306 8-729-119-78 Q311 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		R349 R350 R351 R352	1-249-415-11 1-249-415-11 1-249-409-11 1-247-891-00	CARBON CARBON	680 680 220 330K	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W	
Q313 8-729-119-78 Q316 8-729-119-78 Q331 8-729-119-78 Q332 8-729-900-36	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124ES	·	R353 R354 R355 R356	1-247-891-00 1-249-409-11 1-249-423-11 1-249-427-11	CARBON CARBON CARBON	330K 220 3.3K 6.8K	5% 5%	1/4W 1/4W 1/4W 1/4W	
Q333 8-729-900-36 Q334 8-729-119-78 Q335 8-729-119-78 Q336 8-729-119-78 Q381 8-729-900-36	TRANSISTOR DTC124ES TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC124FS		R358 R359 R360 R361	1-249-409-11 1-249-437-11 1-249-437-11 1-249-418-11	CARBON CARBON CARBON	220 47K 47K 1.2K 270 1K		1/4W 1/4W 1/4W 1/4W	
9382 8-729-119-78 91306 8-729-173-38	TRANSISTOR 2SC2785-HFE		R363 R364	1-249-410-11 1-249-417-11	CARBON	270 1K	5% 5%	1/4W 1/4W	
< RES	SISTOR>		R365 R367 R368 R369	1-249-417-11 1-249-409-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	1K 220 1K 1K 1.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R301 1-249-409-11 R302 1-249-409-11 R303 1-249-409-11 R304 1-249-409-11 R305 1-249-421-11	CARBUN 220 5% CARBON 220 5% CARBON 220 5% CARBON 220 5% CARBON 2.2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R370 R371 R376 R378	1-249-418-11 1-249-417-11 1-249-429-11 1-249-441-11 1-249-441-11		1.2K 1K 10K 100K 100K 5.6K		1/4W 1/4W 1/4W 1/4W 1/4W	
R307 1-249-441-11 R308 1-249-414-11	CARBON 100K 5% CARBON 560 5%	1/4W 1/4W	R380	1-249-441-11	CARBON	5.6K	5%	1/4W	
R310 1-249-405-11 R311 1-249-405-11	CARBON 100 5% CARBON 100 5%	1/4W 1/4W	R382 R383 R385	1-247-885-00 1-247-893-11 1-249-435-11	CARBON CARBON CARBON CARBON	68K 180K 390K 33K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R312 1-249-409-11 R313 1-249-433-11 R314 1-249-413-11 R315 1-249-407-11 R316 1-249-407-11	CARBON 220 5% CARBON 22K 5% CARBON 470 5% CARBON 150 5% CARBON 150 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R389 R390 R391 R392	1-247-883-00 1-249-411-11 1-249-404-00	CARBON CARBON CARBON	150K 330 82	5% 5%	1/4W 1/4W 1/4W	
R317 1-249-407-11		1/4W	R393 R394	1-249-402-11 1-249-402-11 1-249-402-11	CARBON CARBON CARBON	56 56 56	5% 5% 5%	1/4W 1/4W 1/4W	
R318 1-249-429-11 R319 1-249-409-11 R320 1-249-417-11 R321 1-249-421-11	CARBON 150 5% CARBON 10K 5% CARBON 220 5% CARBON 1K 5% CARBON 2.2K 5%	1/4W 1/4W 1/4W 1/4W	R398 R1324	1-249-433-11 1-249-419-11	CARBON CARBON	22K 1.5K	5% 5%	1/4W 1/4W	
R322 1-249-420-11 R323 1-249-421-11	CARBON 1.8K 5% CARBON 2.2K 5% CARBON 5.6K 5%	1/4W 1/4W			IABLE RESISTOR				
R324 1-249-426-11 R325 1-249-429-11 R326 1-249-419-11	CARBON 5.6K 5% CARBON 10K 5% CARBON 1.5K 5%	1/4W 1/4W 1/4W	RV331	1-238-009-11	RES, ADJ, CAR	BON 220	0		
R327 1-249-427-11	CARBON 6.8K 5%	1/4W	1						

The components identified by shading and mark $ilde{\Lambda}$ are critical for safety.
Replace only with part number specified.

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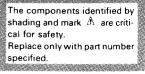
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<transformer> ATHP601.1-808-059-31 THERMISTOR, POSITIVE <crystal> ************************************</crystal></transformer>	REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<pre></pre>					######################################	D001#1115			
<crystal> *A-1296-476-A A BOARD, COMPLETE X331</crystal>	T331 1-404-584-11	COIL		1				******	*******
X331 1-567-307-11 OSCILLATOR, CRYSTAL X332 1-567-131-00 OSCILLATOR, CRYSTAL ***********************************	<cry< td=""><td>YSTAL></td><td>1</td><td></td><td></td><td></td><td></td><td></td></cry<>	YSTAL>	1						
**************************************				 		*********	****		
*1-629-720-21 F2 BOARD ********									



		4									
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	l		REMARK
C155 C156 C157 C158 C159	1-124-963-11 1-136-157-00 1-136-161-00 1-124-963-11 1-124-477-11	FILM FILM ELECT ELECT	33MF 0.022MF 0.047MF 33MF 47MF	5% 5% 20%	16V 50V 50V 16V 16V	Q101 Q102 Q103 Q104 Q105	8-729-900-61 8-729-900-61 8-729-900-61 8-729-900-61 8-729-119-78	TRANSISTOR D	OTA114ES OTA114ES OTA114ES		
C161 C162 C163 C164 C165	1-124-477-11 1-102-816-00 1-124-927-11 1-106-367-00 1-136-287-11	ELECT CERAMIC ELECT MYLAR FILM	47MF 120PF 4.7MF 0.01MF 0.0047MF	20% 5% 20% 10% 5%	16V 50V 50V 400V 50V	Q106 Q107 Q108 Q109 Q109	8-729-119-78 8-729-173-38 8-729-900-65 8-729-900-89 8-729-173-38	TRANSISTOR 2	2SA733-K DTA144ES DTC144ES		
C167 C168 C169 C174 C177	1-124-499-11 1-106-228-00 1-123-875-11 1-124-499-11 1-102-119-00	ELECT MYLAR ELECT ELECT CERAMIC	1MF 0.22MF 10MF 1MF 0.0015MF	20% 10% 20% 20% 10%	50V 100V 50V 50V 50V	Q111 Q112 Q113 Q116 Q117	8-729-900-89 8-729-119-78 8-729-119-78 8-729-900-65 8-729-173-38	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D	2SC2785-HFE 2SC2785-HFE DTA144ES		
C187 C188	1-101-003-00 1-124-963-11 1-124-963-11	CERAMIC ELECT	0.0047MF 33MF 33MF 0.1MF	20% 20%	50V 16V 16V		<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
C189 C190	1-106-220-00 <fil< td=""><td></td><td></td><td>10%</td><td>100V</td><td>R101 R102 R103 R104 R105</td><td>1-249-405-11 1-249-423-11 1-249-433-11 1-249-429-11 1-249-418-11</td><td>CARBON</td><td>100 5% 3.3K 5% 22K 5% 10K 5% 1.2K 5%</td><td>1/4W 1/4W 1/4W 1/4W 1/4W</td><td></td></fil<>			10%	100V	R101 R102 R103 R104 R105	1-249-405-11 1-249-423-11 1-249-433-11 1-249-429-11 1-249-418-11	CARBON	100 5% 3.3K 5% 22K 5% 10K 5% 1.2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
CD103 CF101 CF103	1-404-745-11 1-404-746-11 1-404-134-00 1-527-840-00 1-527-839-00	DISCRIMINATO TRAP, CERAMI FILTER. CERA	OR, CERAMIC OR, CERAMIC IC (5.5MHZ) AMIC AMIC			R106 R107 R108 R109 R110	1-247-891-00 1-249-421-11 1-249-421-11 1-249-423-11 1-249-410-11	CARBON	330K 5% 2.2K 5% 2.2K 5% 3.3K 5% 270 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
SWF101	1-577-254-11	SAWF				R111	1-249-418-11	CARBON	1.2K 5%	1/4W	
CNA11	<con *1-566-659-11</con 	NECTOR> CONNECTOR, I	HINGE (SOCKET	r) 18P		R112 R114 R115 R116	1-249-421-11 1-249-413-11 1-249-413-11 1-249-419-11	CARBON CARBON	2.2K 5% 470 5% 470 5% 1.5K 5%	1/4W 1/4W 1/4W 1/4W	
	<d10< td=""><td>DE></td><td></td><td></td><td></td><td>R117 R118 R119</td><td>1-249-431-11 1-249-425-11 1-249-417-11</td><td>CARBON CARBON CARBON</td><td>15K 5% 4.7K 5% 1K 5% 10K 5%</td><td>1/4W 1/4W 1/4W</td><td></td></d10<>	DE>				R117 R118 R119	1-249-431-11 1-249-425-11 1-249-417-11	CARBON CARBON CARBON	15K 5% 4.7K 5% 1K 5% 10K 5%	1/4W 1/4W 1/4W	
D105 D106 D108	8-719-109-92 8-719-911-19 8-719-000-06	DIODE RD6.2E DIODE 1SS119 DIODE MC921	ES-B1 9			R121 R122	1-249-429-11 1-249-436-11	CARBON	10K 5% 39K 5%	1/4W 1/4W	
D110 D111	8-719-911-19 8-719-109-68	DIODE 188119 DIODE RD3.6) ES-B1			R123 R124 R125 R126 R127	1-249-417-11 1-249-423-11 1-249-429-11 1-249-436-11 1-249-432-11	CARBON CARBON CARBON	1K 5% 3.3K 5% 10K 5% 39K 5% 18K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
IC101 IC102 IC103 IC104	8-759-909-08 8-759-973-86 8-759-030-48 8-759-946-99	IC TDA3541 IC TDA2558 IC TDA6600-1 IC TDA2595-1				R128 R129 R130 R132 R133	1-249-432-11 1-249-429-11 1-249-429-11 1-249-414-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	18K 5% 10K 5% 10K 5% 560 5% 4.7K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<c01< td=""><td>L></td><td></td><td></td><td></td><td>R134 R135</td><td>1-249-414-11 1-249-419-11</td><td>CARBON CARBON</td><td>560 5% 1.5K 5%</td><td>1/4W 1/4W</td><td></td></c01<>	L>				R134 R135	1-249-414-11 1-249-419-11	CARBON CARBON	560 5% 1.5K 5%	1/4W 1/4W	
L101 L102 L103 L104	1-408-226-00 1-410-116-11 1-408-406-00 1-408-411-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	82UH 0.56MMH 5.6UH 15UH			R136 R137 R138	1-249-414-11 1-249-414-11 1-249-419-11	CARBON CARBON CARBON	560 5% 560 5% 1.5K 5%	1/4W 1/4W 1/4W	
L106 L107	1-408-415-00 1-408-406-00	INDUCTOR INDUCTOR	330H 5.60H			R139 R140 R141	1-249-431-11 1-249-441-11 1-249-425-11	CARBON CARBON CARBON	15K 5% 100K 5% 4.7K 5%	1/4W 1/4W 1/4W	
L108 L109 L110	1-408-412-00 1-408-412-00 1-410-064-11	INDUCTOR INDUCTOR INDUCTOR	18UH 18UH 2.7MMH			R142 R143	1-249-441-11 1-249-441-11	CARBON CARBON	100K 5% 100K 5%	1/4W 1/4W	
L111 L113	1-408-421-00 1-408-399-00	INDUCTOR INDUCTOR	100UH 1.5UH			R144 R146 R148 R150 R151	1-249-422-11 1-249-424-11 1-249-413-11 1-249-423-11	CARBON CARBON CARBON CARBON CARBON	2.7K 5% 3.9K 5% 470 5% 3.3K 5% 3.3K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<tr <="" td=""><td>ANSISTOR></td><td></td><td></td><td></td><td>R152</td><td>1-249-423-11 1-249-431-11</td><td></td><td>3.3K 5%</td><td>1/4W 1/4W</td><td></td></tr>	ANSISTOR>				R152	1-249-423-11 1-249-431-11		3.3K 5%	1/4W 1/4W	
ANSISTOR>				R152	1-249-423-11 1-249-431-11		3.3K 5%	1/4W 1/4W			

					J ₁	J ₂	Нз	H	4 K
REF.NO. PART NO.	DESCRIPTION		REMARK	REF. NO	. PART NO.	DESCRIPT	ION		REMARK
R1504 1-249-435-1 R1505 1-249-433-1 R1506 1-247-895-0 R1509 1-247-887-0 R1510 1-249-426-1	1 CARBON 22K O CARBON 470K O CARBON 220K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		D1405		OO HOLDER, L	124 ED; D1405		
R1511 1-249-417-1 R1512 1-249-429-1 R1513 1-249-438-1 R1514 1-249-417-1 R1515 1-247-899-1 R1516 1-249-432-1 R1517 1-249-410-1 R1518 1-249-429-1 R1519 1-247-883-0 R1520 1-247-895-0	1 CARBON 10K 1 CARBON 56K 1 CARBON 1K 1 CARBON 1K 1 CARBON 680K 1 CARBON 270 1 CARBON 10K 1 CARBON 10K 0 CARBON 150K 0 CARBON 470K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		S1402	1-571-085-2 1-571-085-2 1-571-085-2 1-571-085-2	SWITCH, TA	ACTICLE		
R1521 1-249-425-11 R1556 1-249-426-11		5% 1/4W 5% 1/4W		S1411 S1412	1-571-085-2 1-571-085-2	1 SWITCH, TA 1 SWITCH, TA	CTICLE CTICLE		
	ARIABLE RESISTOR>			į	1-571-085-2	1 SWITCH, TA	CTICLE	******	******
RV1501 1-238-023-11 RV1502 1-228-994-00 RV1503 1-238-017-11 RV1504 1-238-012-11 RV1505 1-238-023-11	RES, ADJ, CARBON 10 RES, ADJ, CARBON 22 RES, ADJ, CARBON 1K	K K			*1-629-786-2: *4-374-987-0:	H4 BOARD ******** GUIDE, LIG	H T		
RV1506 1-238-017-11 RV1507 1-238-009-11 RV1508 1-238-016-11	RES, ADJ, CARBON 22 RES, ADJ, CARBON 22 RES, ADJ, CARBON 10	n			*4-388-955-01	BRACKET (B)	, LIGHT GUI	IDE	
KV1509 1-228-999-00	RES, ADJ, CARBON 47	OK		CNH401	*1-564-884-11	INNECTOR> Plug, conne	ECTOR 7P		
* 1~629~783~21	**************************************	*********	*******	CNH403:		PLUG, CONNE	CCTOR 3P		
<ca< td=""><td>PACITOR></td><td></td><td></td><td>D1401</td><td>8-719-948-31</td><td>ODE></td><td>1VR</td><td></td><td></td></ca<>	PACITOR>			D1401	8-719-948-31	ODE>	1VR		
C1401 1-126-105-11 C1402 1-126-105-11	ELECT 1000MF		35V 35V	D1402	*4-387-825-01 8-719-948-31 *4-387-825-01 8-719-948-31	DIODE LD-20 HOLDER, LED	1VR : D1402		
	NNECTOR>			D1404	*4-387-825-01 8-719-948-31	HOLDER, LED DIODE LD-20	; D1403 1VR		
CNJ23 *1-564-893-11 CNJ242*1-564-893-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P				<10	>			
<ja(< td=""><td></td><td></td><td></td><td>IC1401 IC1401</td><td>8-741-138-70 8-749-901-33</td><td>IC BX-1387 IC SBX1483-</td><td>11</td><td></td><td></td></ja(<>				IC1401 IC1401	8-741-138-70 8-749-901-33	IC BX-1387 IC SBX1483-	11		
J1401 1-507-806-00					************** 1-629-781-21	**************************************	**********	*******	* *******
R1401 1-247-708-11	SISTOR> CARBON 470	5% 1/4W 5% 1/4W			- 10, 10, 21	******			
R1402 1-247-708-11	CARBON 470		******	€202	<caf 1-124-902-00</caf 	ACITOR> ELECT	0.47MF	20%	50V
*1-629-785-21				C203 C204 C205	1-124-477-11 1-124-902-00 1-124-927-11 1-124-477-11	ELECT ELECT ELECT ELECT	47MF 47MF 0.47MF 4.7MF 47MF	20% 20% 20% 20% 20%	16V 50V 50V 16V
CNH302*1-564-898-11	NECTOR> Plug, connector 9P			C213	1-124-927-11 1-126-233-11 1-106-363-00	ELECT ELECT MYLAR	4.7MF 22MF 0.0068MF	20% 20% 10%	50V 50V 4 00V
CMH303*1~364-892-41	PLUG, CONNECTOR 3P		;	C217	1-106-363-00 1-106-363-00 1-106-375-12	MYLAR MYLAR	0.0068MF 0.022MF	10% 10% 10%	400V 250V
<d10< td=""><td>DE></td><td></td><td>į</td><td>C219 1</td><td>1-106-375-12</td><td>MYLAR</td><td>0.022MF</td><td>10%</td><td>250V</td></d10<>	DE>		į	C219 1	1-106-375-12	MYLAR	0.022MF	10%	2 50V



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C220 C221 C222 C223 C224	1-108-620-11 1-108-620-11 1-106-375-12 1-106-375-12 1-106-367-00	MYLAR MYLAR MYLAR MYLAR MYLAR	0.0033MF 0.0033MF 0.022MF 0.022MF 0.01MF	10% 10% 10% 10% 10%	100V 100V 250V 250V 400V	R221 R222 R223 R224 R225	1-249-417-11 1-249-417-11 1-249-413-11 1-249-413-11 1-249-417-11	CARBON	1K 5% 1K 5% 470 5% 470 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C225 C226 C227 C228 C229	1-136-173-00 1-136-173-00 1-106-375-12 1-106-379-12 1-106-371-00	FILM FILM MYLAR MYLAR MYLAR	0.47MF 0.47MF 0.022MF 0.033MF 0.015MF	5% 5% 10% 10% 10%	50V 50V 250V 250V 400V	R226 R227 R228 R229 R230	1-249-417-11 1-249-417-11 1-249-417-11 1-249-441-11 1-249-441-11	CARBON CARBON	1K 5% 1K 5% 1K 5% 100K 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C230 C231 C232 C233 C234		ELECT Elect	0.015MF 0.47MF 10MF 470PF 470PF	10% 20% 20% 10% 10%	400V 50V 50V 50V 50V	R231 R232	1-249-437-11 1-249-437-11	CARBON *********	47K 5% 47K 5%	1/4W 1/4W ******	******
C235 C236 C237 C238 C239	1-102-114-00 1-102-114-00 1-124-902-00 1-102-978-00 1-126-103-11	CERAMIC ELECT CERAMIC	470PF 470PF 0.47MF 220PF 470MF	10% 10% 20% 5% 20%	50V 50V 50V 50V 16V			MAGNET, DISK MAGNET, RPTA	; 10MM ø		
CNEGI	<00N *1-562-370-21	INECTOR>	መስለውው ተ ብ ይ ብ	IADN 19D			1-574-565-11 3.1-559-346-12	CORD (WITH P	LUG) (WITH CONNE	CTOR)	
CNK25	*1-564-880-31	PLUG, CONNEC	CTOR 3P	101		L901 A	A. 1-426-372-11 A. 8-733-224-05	COIL. DEMAGN	ETIZATION		
<diode></diode>							******				******
D201 D202 D205 D206	8-719-110-14 8-719-110-14 8-719-110-04 8-719-110-04	DIODE RD9.11 DIODE RD7.5	ES-B3 ES-B3					ES AND PACKIN			
- 200						1	PART NO.	DESCRIPTION			REMARK
10201	<1C> 8-759-013-17						A-1470-844-A 3-750-032-51 *4-381-155-01 *4-387-845-02	BAG. PROTECT	RUCTION Ion		
		ANSISTOR>					*4-387-846-02	CUSHION (LOW	ER) (ASSY)		
0201 0202	8-729-119-78 8- 7 29-119-78	TRANSISTOR TRANSISTOR	2SC2785-HFI 2SC2785-HFI	Ē		****	*4-387-847-01 *******			******	******
	<res< td=""><td>SISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></res<>	SISTOR>									
R201 R202 R203 R204 R205	1-249-441-11 1-249-425-11 1-249-441-11 1-249-435-11 1-249-435-11	CARBON CARBON CARBON CARBON CARBON	100K 5 4.7K 5 100K 5 33K 5 33K 5	% 1/4W		1 5 4 1 1 1 1 1 1			·		
R206 R207 R208 R209 R210	1-249-423-11 1-249-423-11 1-249-431-11 1-249-433-11 1-249-431-11	CARBON CARBON CARBON CARBON CARBON	3.3K 55 3.3K 55 15K 55 22K 55 15K 55	% 1/4W							
R211 R212 R213 R214 R215	1-249-441-11 1-249-433-11 1-249-431-11 1-249-417-11 1-249-433-11		100K 5 22K 5 15K 5 1K 5 22K 5	% 1/4W % 1/4W % 1/4W % 1/4W % 1/4W							
R216 R217 R218 R219 R220	1-249-433-11 1-249-431-11 1-249-417-11 1-249-429-11 1-249-425-11	CARBON CARBON CARBON	22K 5 15K 5 1K 5 10K 5 4.7K 5	1/4W 1/4W 1/4W 1/4W							

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